



## Iris um Oifig Maoine Intleachtúla na hÉireann Journal of the Intellectual Property Office of Ireland

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Cill Chainnigh 28 January 2026

Uimh. 2560

### CLÁR INNSTE

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**Iris um Oifig Maoine Intleachtúla na hÉireann**  
**Journal of the Intellectual Property Office of Ireland**  
**Cuid I**  
**Paitinní agus Dearachtaí**

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**No. 2560****Wednesday, 28 January, 2026**

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**Official Notice**

**Patent Rules 1992 – Rule 77, – Office Closure**

**The Intellectual Property Office of Ireland (IPOI) will be closed for the transaction of business  
on Monday 2nd February 2026**

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## Applications for Patents

### From 26/12/2025 to 08/01/2026

The names of applicants are in alphabetical order. The title of the invention should not be regarded as an exhaustive indication of the subject-matter. The date immediately following the title is that on which the application was filed; in the case of a divisional application, the filing date of the earlier application is added within parentheses. Where the application invokes the Paris Convention, the Convention country and priority date(s) claimed are given in square brackets. Where an application claimed the priority of an earlier application filed at this Office, this information is given within the square brackets. The number is that of the application and should be used for correspondence purposes up to the date of grant of a patent. The letter S preceding the number indicates that the application is for a short-term patent. A new number will be given when a patent is granted and this new number should be quoted in all correspondence subsequent to grant.

|                                                                                                                                                                                                              |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ADARSH PANDEY Logic-Constrained On-Device Puzzle Game Generation 31 December 2025                                                                                                                            | <b>20250601</b>  |
| ANAND MURALEEDHARAN GEETHA System and Method for Cryptographic Verification of Provenance of Authoritative Digital Content 03 January 2026                                                                   | <b>S20260006</b> |
| AOIBHEANN MURRAY Launcher for sliotars as a new training device in Hurling and Camogie 29 December 2025                                                                                                      | <b>S20250597</b> |
| ARYA SATHEESH An Enzyme-Immobilised Biodegradable Polymer System for Degradation of PET Microplastics 02 January 2026                                                                                        | <b>S20260001</b> |
| BEN GLOVER Catheter Sheath with Shaft-Based Electrodes for Real-Time Monitoring of Diaphragmatic Myopotentials During Cardiac Ablation 29 December 2025                                                      | <b>S20250596</b> |
| CONNOR MC ADAMS Method and System for Reforming End-of-Life Wind Turbine Blade Composites into Molded Construction Materials 05 January 2026                                                                 | <b>S20260008</b> |
| DARREN PATRICK O'DONNELL Human-Centric System and Method for Verifying Reality as a Single Source of Truth 28 December 2025                                                                                  | <b>20250593</b>  |
| DEEPTA SURESH Biologically Active Vascular Implant for Localized Insulin Delivery 06 January 2026                                                                                                            | <b>S20260010</b> |
| ÉANNA WOODS; PATRICK EGAN; MICHAEL GORMLEY Vision enhancing polycarbonate insert for a hurling helmet 06 January 2026                                                                                        | <b>S20260009</b> |
| ERIC PURCELL GOLF TRAINING AID 08 January 2026                                                                                                                                                               | <b>20260012</b>  |
| HANNAH QUINN; CAOIMHE QUINN Biodegradable Sunscreen and Optical Lenses Comprising Seaweed Derived Cellulose 06 January 2026                                                                                  | <b>S20260011</b> |
| HUSSEIN RASHAD ABDELGHANY HASSAN A Synergistic Bio-Polymer Platform for Microbiome Protection and Dermal Barrier Regeneration Using a Chitosan-Lactic Acid Matrix and Tyndallized Postbiotic 08 January 2026 | <b>S20260013</b> |
| INSTITUTE OF HIGHLAND FOREST SCIENCE, CHINESE ACADEMY OF FORESTRY IDENTIFICATION METHOD FOR IMPACT OF EXOTIC ECONOMIC CROPS ON LOCAL ECONOMIC CROPS 31 December 2025                                         | <b>S20250600</b> |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| JACINTA CLARKE The Human Design System for positive change 26 December 2025                                                                                           | <b>S20250592</b> |
| JOHN BENNAN Ground-Glide Hurley Tip Geometry for Enhanced Jab-Lift Performance 05 January 2026                                                                        | <b>20260007</b>  |
| KAMEL AIFI SYSTEM AND METHOD FOR AI-CONTROLLED VOICE-TO-HANDWRITING ROBOTIC WRITING 02 January 2026                                                                   | <b>S20260003</b> |
| MARY ROCHE CLEARY A Magnetically-Attachable Vehicle-Mounted Shelter 02 January 2026                                                                                   | <b>S20260004</b> |
| MOHAMMADI MAAHTAAB; ANAND MURALEEDHARAN GEETHA Externally Auditable, Deterministic Schema Evolution Across Federated Multi-User Critical Care Systems 03 January 2026 | <b>S20260005</b> |
| PADDY O SHEA Wall-Mounted Footwear Storage System 29 December 2025                                                                                                    | <b>S20250594</b> |
| RICKY MADISON Single-Lead ECG Oncology Monitoring and Tiered Escalation Using Deterministic Signal-Quality Validation 30 December 2025                                | <b>S20250599</b> |
| SMEY BIOTECHNOLOGIES LIMITED Lipid composition 29 December 2025                                                                                                       | <b>20250595</b>  |
| TEIRE Material for Bio-Mineralization and Biological Settlement in Marine Environments 29 December 2025                                                               | <b>20250598</b>  |
| TYLER FERGUSON Sure Sit Mat 04 January 2026                                                                                                                           | <b>S20260002</b> |

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## Applications Published Under Section 28

The following applications become open to public inspection as from the date of this issue of the journal unless otherwise specified. The date given is the date of filing of the application or the earliest priority claimed.

|      |           |                                                                                                                                                                                                                                                                                |
|------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021 | S20210131 | MEDIBRANE LTD., SELECTIVELY BONDED STENT ASSEMBLY AND METHOD OF MANUFACTURING. 01 July 2020. Int. Cl. (2025.01) <b>A61F 2/00</b> .                                                                                                                                             |
| 2023 | S20230115 | INSTITUTE OF CHEMICAL INDUSTRY OF FOREST PRODUCTS, CHINESE ACADEMY OF FORESTRY, Method for preparing methane and organic fertilizers by dry fermentation of quality basing and grading pretreated biomass. 30 November 2022. Int. Cl. (2025.01) <b>C05F 17/00; C12P 5/00</b> . |
| 2023 | S20230165 | ZHENGZHOU UNIVERSITY, METHOD FOR ELECTROREFINING RARE METALS BY METASTABLE HIGH-TEMPERATURE MOLTEN SALT BASED ON BLENDED CATIONS. 22 May 2023. Int. Cl. (2025.01) <b>C25C 3/00</b> .                                                                                           |
| 2023 | S20230181 | SHANGHAI UNIVERSITY, TRAINING ROBOT CONVENIENT TO OPERATE FOR UPPER-LIMB REHABILITATION AND OPERATING METHOD. 26 May 2023. Int. Cl. (2025.01) <b>A61H 1/00; A63B 22/00; A63B 21/00; A63B 23/00</b> .                                                                           |
| 2024 | S20240078 | SUPERTAB AG, A computer-implemented method for providing a response to a user query. 01 February 2024. Int. Cl. (2025.01) <b>G06F 16/00; G06Q 30/00</b> .                                                                                                                      |
| 2024 | S20240096 | JOURNEE TECHNOLOGIES GMBH, A method for providing views on a virtual world and a rendering server. 31 January 2024. Int. Cl. (2025.01) <b>G06T 15/00; G06T 5/00</b> .                                                                                                          |
| 2024 | 20240114  | CANTILLON INNOVATIONS LIMITED, A Process for generating a biofilm and Method of preserving fodder as silage. 28 February 2024. Int. Cl. (2025.01) <b>A23K 30/00</b> .                                                                                                          |
| 2024 | S20240236 | UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING, A dynamic perception heating furnace temperature control device and optimization method. 26 April 2024. Int. Cl. (2025.01) <b>C21D 11/00; C21D 9/00</b> .                                                                        |
| 2024 | 20240277  | PAUL FALLON, TRANSFER AID FOR INVALIDS. 14 May 2024. Int. Cl. (2025.01) <b>A61G 7/00</b> .                                                                                                                                                                                     |
| 2024 | 20240404  | CAPRI MEDICAL LIMITED, A WEARABLE DEVICE FOR WIRELESSLY POWERING A NEUROSTIMULATION DEVICE. 08 July 2024. Int. Cl. (2025.01) <b>A61N 1/00; A61B 17/00</b> .                                                                                                                    |

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|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024 | S20240411 | WENZHOU VOCATIONAL COLLEGE OF SCIENCE AND TECHNOLOGY (WENZHOU ACADEMY OF AGRICULTURAL SCIENCES), A rice field growth environment monitoring system. 09 July 2024. Int. Cl. (2025.01) <b>G01D 21/00; G01N 33/00.</b>                           |
| 2024 | S20240428 | WENZHOU POLYTECHNIC, A smart park monitoring information wireless receiving system. 17 July 2024. Int. Cl. (2025.01) <b>H04N 7/00; G06V 20/00.</b>                                                                                            |
| 2024 | S20240439 | FISHERY MACHINERY AND INSTRUMENT RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES, A bidirectional step regulated vacuum drying system for Antarctic krill. 19 July 2024. Int. Cl. (2025.01) <b>F26B 5/00; F26B 17/00; F26B 21/00.</b> |
| 2024 | 20240484  | BRUKER DALTONICS GMBH & CO. KG, APPARATUS AND METHOD FOR TRANSMITTING GASEOUS IONIC SAMPLE MATERIAL FOR SUBSEQUENT ANALYSIS. 01 September 2023. Int. Cl. (2025.01) <b>H01J 49/00; G01N 27/00.</b>                                             |
| 2024 | 20240569  | EVAH ATLANTIC INC., DIHYDROISOXAZOLE COMPOUND FOR USE IN REDUCING ECTOPARASITE INFESTATIONS ON FISH. 15 September 2023. Int. Cl. (2025.01) <b>A61K 31/00; A61P 33/00 A01K 61/00.</b>                                                          |
| 2024 | S20240717 | MUDR. MICHAL VIRÁG, BOOK WITH BACKLIT PAGES. 04 March 2024. Int. Cl. (2025.01) <b>B42D 15/00; B42D 3/00.</b>                                                                                                                                  |
| 2024 | S20240768 | HUANENG GUANGXI CLEAN ENERGY CO. LTD., Device for Stabilizing Hinged Shaft for Photovoltaic Power Generation, and Method for Expanding Angle Adjustment Range. 29 March 2024. Int. Cl. (2025.01) <b>H02S 20/00; F24S 30/00.</b>               |
| 2025 | 20250014  | MAKO SURGICAL CORP., SURGICAL IRRIGATION CLIP. 10 January 2024. Int. Cl. (2025.01) <b>A61B 17/00; F16L 3/00.</b>                                                                                                                              |
| 2025 | 20250023  | ABBVIE INC., CLOSTRIDIUM BOTULINUM NEUROTOXIN SEROTYPE A COMPOSITIONS AND IMPROVED DRYING PROCESSES. 19 January 2024. Int. Cl. (2025.01) <b>A61K 38/00; A61K 9/00.</b>                                                                        |
| 2025 | 20250250  | WAVESCOPE LTD, A Medical Assessment System. 11 June 2024. Int. Cl. (2025.01) <b>A61B 5/00.</b>                                                                                                                                                |

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## Applications Under Section 127A Published Under Section 28

The following applications made pursuant to Section 127A are accorded the Treaty publication date of that application. These become open to public inspection as of from the date given in bold square brackets.

|             |                 |                                                                                                                                                                                 |
|-------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2024</b> | <b>20240788</b> | LINCOLN AGRITECH LIMITED, PROCESS AND SYSTEM. 24 February 2023.<br>Int. Cl. (2025.01) <b>C25B 3/00; C25B 11/00; C25B 1/00; C25B 15/00. [ Published<br/>on 28 January 2026 ]</b> |
|-------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Patents Granted Under Section 34

The number of a patent is given in heavy type; the letter S preceding the number indicates a short-term patent. The code numbers following the title of each invention are those of the International Patent Classification. The date of filing the application follows the proprietor's name. The patent application number, which follows the date of application in parenthesis, has been superseded by the patent number. In the case of an application claiming the priority of an earlier application, the name of the country where the earlier application was made and the date of the earlier application are shown in square brackets.

|              |                                                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>87695</b> | An apparatus for spreading slurry and a boom assembly therefor. Int. Cl.<br>(2025.01) <b>A01B 73/00; A01C 23/00; B60P 3/00. SRF LIMITED 07 December<br/>2023 (20230526) [United Kingdom-12 December 2022]</b> |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Patents Granted Under European Patent Convention Designating Ireland

The Irish serial number appears first followed, respectively, by the proprietor's name, the date of filing of the application, the filing number and the European Patent Office publication number.

If the specification of the European patent was published in French or German the word 'French' or 'German', as appropriate, will appear as the last item of information. In such cases, it is necessary to file a translation in English and pay the prescribed fee, within six months of the publication date of the grant, in order that the patent may continue to have effect.

### Grants Published in EPO Bulletin No. 01/26, dated 2025-12-31

|         |                                                     |            |         |            |        |
|---------|-----------------------------------------------------|------------|---------|------------|--------|
| 2101918 | NETZSCH Trockenmahltechnik GmbH<br>DynaSystems GmbH | 16/10/2007 | 2101918 | 07817687.2 | German |
| 2366881 | Astemo, Ltd.                                        | 16/02/2011 | 2366881 | 11154620.6 |        |
| 2419553 | Seerstone LLC                                       | 05/04/2010 | 2419553 | 10764905.5 |        |
| 2565490 | Astemo, Ltd.                                        | 21/03/2012 | 2565490 | 12160623.0 |        |
| 2639955 | RWE Deutschland AG                                  | 04/10/2012 | 2639955 | 12187143.8 | German |
| 2672645 | ACER INCORPORATED                                   | 06/06/2013 | 2672645 | 13170820.8 |        |
| 2740450 | The Procter & Gamble Company                        | 10/12/2012 | 2740450 | 12196343.3 |        |
| 2866635 | MEIKO Maschinenbau GmbH & Co. KG                    | 27/06/2013 | 2866635 | 13732480.2 | German |
| 2920087 | Silgan Dispensing Systems Corporation               | 14/11/2013 | 2920087 | 13855104.9 |        |
| 2937035 | Universidad Complutense De Madrid<br>Crambo, S.A.   | 05/07/2013 | 2937035 | 13863720.2 |        |
| 2949906 | Cummins Inc.                                        | 22/05/2015 | 2949906 | 15169046.8 |        |
| 2974998 | Krones AG                                           | 17/07/2015 | 2974998 | 15177263.9 | German |
| 2978958 | Rolls-Royce Solutions GmbH                          | 20/01/2014 | 2978958 | 14701912.9 | German |
| 2988726 | Mars, Incorporated                                  | 13/03/2014 | 2988726 | 14768901.2 |        |
| 2999733 | Ester Industries Limited                            | 21/05/2014 | 2999733 | 14753160.2 |        |
| 3018633 | Siemens Healthineers AG                             | 04/11/2014 | 3018633 | 14191641.1 | German |
| 3018718 | AZUR SPACE Solar Power GmbH                         | 10/11/2014 | 3018718 | 14003768.0 | German |
| 3035937 | Reata Pharmaceuticals Holdings, LLC                 | 22/08/2014 | 3035937 | 14789437.2 |        |
| 3060065 | Arla Foods Amba                                     | 23/10/2014 | 3060065 | 14792438.5 |        |
| 3070907 | Xilinx, Inc.                                        | 17/03/2016 | 3070907 | 16160897.1 |        |
| 3081790 | WinGD Ltd.                                          | 20/02/2015 | 3081790 | 15155893.9 |        |
| 3100042 | Baker Hughes Digital Solutions GmbH                 | 28/01/2015 | 3100042 | 15701965.4 |        |
| 3141706 | GE Vernova Technology GmbH                          | 09/09/2015 | 3141706 | 15184436.2 |        |
| 3143838 | 6K Inc.                                             | 14/05/2014 | 3143838 | 14891997.0 |        |
| 3176387 | General Electric Company                            | 24/11/2016 | 3176387 | 16200478.2 |        |
| 3186800 | Jeyanandarajan, Dhiraj                              | 28/08/2015 | 3186800 | 15835303.7 |        |
| 3186849 | Bayerische Motoren Werke<br>Aktiengesellschaft      | 14/08/2015 | 3186849 | 15757174.6 | German |
| 3193768 | Intuitive Surgical Operations, Inc.                 | 17/09/2015 | 3193768 | 15842454.9 |        |
| 3208103 | Kuretake Co., Ltd.                                  | 14/10/2015 | 3208103 | 15850953.9 |        |
| 3214949 | world wide WIBERG GmbH                              | 09/11/2015 | 3214949 | 15804687.0 | German |
| 3225672 | Dongguan Amperex Technology Limited                 | 24/01/2017 | 3225672 | 17152863.1 |        |
| 3228983 | Hexagon Innovation Hub GmbH                         | 05/05/2014 | 3228983 | 16202704.9 |        |
| 3249003 | Johns Manville                                      | 25/04/2017 | 3249003 | 17167996.2 |        |
| 3253543 | 3M Innovative Properties Company                    | 08/01/2016 | 3253543 | 16746020.3 |        |
| 3254391 | Qualcomm Incorporated                               | 03/02/2016 | 3254391 | 16708505.9 |        |
| 3257532 | Vantive US Healthcare LLC<br>Vantive Health GmbH    | 02/07/2008 | 3257532 | 17181950.1 |        |
| 3258331 | Schneider Electric Industries SAS                   | 16/06/2016 | 3258331 | 16305737.5 | German |
| 3263182 | Gasteiger, Pascal                                   | 01/07/2016 | 3263182 | 16177580.4 | German |
| 3266009 | Copeland Cold Chain LP                              | 01/03/2016 | 3266009 | 16759357.3 |        |
| 3291667 | Nunhems B.V.                                        | 03/05/2016 | 3291667 | 16725044.8 |        |
| 3294327 | In3Bio Ltd.                                         | 12/05/2016 | 3294327 | 16741385.5 |        |
| 3307238 | Orgenesis Inc.                                      | 13/06/2016 | 3307238 | 16731753.6 |        |

|         |                                                                                    |            |         |            |        |
|---------|------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 3311907 | Korea University Research and Business Foundation                                  | 25/01/2017 | 3311907 | 17744571.5 | French |
| 3316085 | BOE Technology Group Co., Ltd.<br>Beijing BOE Optoelectronics Technology Co., Ltd. | 05/11/2015 | 3316085 | 15894514.7 |        |
| 3318136 | The Quaker Oats Company                                                            | 27/04/2010 | 3318136 | 17201645.3 |        |
| 3322345 | Sonavex, Inc.                                                                      | 13/07/2016 | 3322345 | 16825087.6 |        |
| 3322727 | Genmab A/S                                                                         | 14/07/2016 | 3322727 | 16739459.2 |        |
| 3324466 | LG Energy Solution, Ltd.                                                           | 24/03/2017 | 3324466 | 17770672.8 |        |
| 3325438 | The Brigham and Women's Hospital, Inc.                                             | 19/07/2016 | 3325438 | 16828406.5 |        |
| 3325589 | Takasago International Corporation                                                 | 20/07/2016 | 3325589 | 16745334.9 |        |
| 3334850 | Alcoa USA Corp.                                                                    | 11/08/2016 | 3334850 | 16835933.9 |        |
| 3345580 | Mani, Inc.                                                                         | 01/09/2016 | 3345580 | 16841961.2 |        |
| 3346389 | Commissariat à l'Energie Atomique et aux Energies Alternatives                     | 05/01/2018 | 3346389 | 18150450.7 | French |
| 3358590 | Kabushiki Kaisha Tokai Rika Denki Seisakusho                                       | 07/02/2018 | 3358590 | 18155449.4 |        |
| 3358877 | NTT DOCOMO, INC.                                                                   | 04/11/2016 | 3358877 | 16862218.1 |        |
| 3358942 | Dümmen Group B.V.                                                                  | 04/10/2016 | 3358942 | 16782019.0 |        |
| 3359187 | Boehringer Ingelheim Animal Health USA Inc.                                        | 05/10/2016 | 3359187 | 16788600.1 |        |
|         | Vetagro-Sup<br>Institut Pasteur                                                    |            |         |            |        |
| 3359716 | Stora Enso Oyj                                                                     | 06/10/2016 | 3359716 | 16853177.0 |        |
| 3362784 | Lonza Ltd                                                                          | 14/10/2016 | 3362784 | 16856310.4 |        |
| 3366228 | Covidien LP                                                                        | 21/02/2018 | 3366228 | 18157828.7 |        |
| 3368906 | Randox Laboratories Ltd.                                                           | 27/10/2016 | 3368906 | 16801137.7 |        |
| 3370509 | The Sainsbury Laboratory                                                           | 02/11/2016 | 3370509 | 16797697.6 | German |
| 3371156 | Regents of the University of Minnesota                                             | 07/11/2016 | 3371156 | 16798601.7 |        |
| 3371538 | Durst Group AG                                                                     | 04/11/2016 | 3371538 | 16794002.2 |        |
| 3371646 | Essilor International                                                              | 06/11/2015 | 3371646 | 15813904.8 |        |
| 3371740 | Zoox, Inc.                                                                         | 02/11/2016 | 3371740 | 16806310.5 |        |
| 3373946 | Unigen, Inc.                                                                       | 09/11/2016 | 3373946 | 16831945.7 |        |
| 3374402 | Northwestern University<br>King Abdulaziz City for Science and Technology          | 15/11/2016 | 3374402 | 16865255.0 |        |
| 3375188 | InterDigital Madison Patent Holdings, SAS                                          | 10/11/2016 | 3375188 | 16805613.3 |        |
| 3376525 | Sumco Corporation                                                                  | 01/11/2016 | 3376525 | 16864089.4 |        |
| 3377016 | Edgewell Personal Care Brands, LLC                                                 | 17/11/2016 | 3377016 | 16810525.2 |        |
| 3377244 | KS Kolbenschmidt GmbH                                                              | 17/11/2016 | 3377244 | 16801730.9 | German |
| 3378097 | HRL Laboratories, LLC                                                              | 07/11/2016 | 3378097 | 16866855.6 |        |
| 3382934 | Mastercard Technologies Canada ULC                                                 | 31/03/2009 | 3382934 | 18168881.3 |        |
| 3383263 | Rutgers, The State University of New Jersey                                        | 18/11/2016 | 3383263 | 16871277.6 |        |
| 3389017 | INTEL Corporation                                                                  | 23/03/2018 | 3389017 | 18163708.3 |        |
| 3389216 | Sony Group Corporation                                                             | 29/11/2016 | 3389216 | 16872850.9 |        |
| 3389873 | Metso Sweden AB                                                                    | 15/12/2016 | 3389873 | 16822748.6 |        |
| 3401259 | Otis Elevator Company                                                              | 29/03/2018 | 3401259 | 18165011.0 |        |
| 3403205 | Dassault Systèmes Americas Corp.                                                   | 12/01/2017 | 3403205 | 17702762.0 |        |
| 3405255 | Setpoint Medical Corporation                                                       | 20/01/2017 | 3405255 | 17742068.4 | German |
| 3407771 | Boston Scientific Scimed, Inc.                                                     | 26/01/2017 | 3407771 | 17704143.1 |        |
| 3413839 | AMO Groningen B.V.                                                                 | 09/02/2017 | 3413839 | 17713067.1 |        |
| 3416843 | Iveco S.p.A.                                                                       | 17/02/2017 | 3416843 | 17716602.2 |        |
| 3419805 | Andersen Corporation                                                               | 23/02/2017 | 3419805 | 17709855.5 |        |
| 3425412 | LG Energy Solution, Ltd.                                                           | 06/11/2017 | 3425412 | 17867982.5 |        |
| 3427050 | Kellanova                                                                          | 09/03/2017 | 3427050 | 17714058.9 |        |
| 3430717 | Roofit Solar Energy Oü                                                             | 13/03/2017 | 3430717 | 17722851.7 |        |
| 3433835 | Hulu, LLC                                                                          | 21/03/2017 | 3433835 | 17770989.6 |        |
| 3434986 | Beijing Xiaomi Mobile Software Co., Ltd.                                           | 26/07/2018 | 3434986 | 18185829.1 | German |
| 3438670 | Hitachi High-Tech Corporation                                                      | 23/01/2017 | 3438670 | 17773543.8 |        |
| 3439827 | Mirka Ltd.                                                                         | 04/04/2016 | 3439827 | 16714861.8 |        |
| 3443855 | Nicoventures Trading Limited                                                       | 29/08/2014 | 3443855 | 18194467.9 |        |

|         |                                                                      |            |         |            |        |
|---------|----------------------------------------------------------------------|------------|---------|------------|--------|
| 3449561 | Allegro MicroSystems, LLC                                            | 25/04/2017 | 3449561 | 17722265.0 |        |
| 3455605 | Markes International Limited                                         | 09/05/2017 | 3455605 | 17724873.9 |        |
| 3455943 | InterDigital Patent Holdings, Inc.                                   | 09/05/2017 | 3455943 | 17724254.2 |        |
| 3463540 | Becton, Dickinson and Company                                        | 23/05/2017 | 3463540 | 17726523.8 |        |
| 3470111 | Setpoint Medical Corporation                                         | 12/10/2018 | 3470111 | 18200222.0 |        |
| 3470313 | Deutsche Post AG                                                     | 09/10/2018 | 3470313 | 18199294.2 | German |
| 3471091 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 06/07/2011 | 3471091 | 18199217.3 |        |
| 3471601 | CIRCA Scientific, Inc.                                               | 16/06/2017 | 3471601 | 17814234.5 |        |
| 3471627 | Ark Surgical Ltd.                                                    | 18/06/2017 | 3471627 | 17812894.8 |        |
| 3473597 | Mitsui Kinzoku Company, Limited                                      | 13/06/2017 | 3473597 | 17813320.3 |        |
| 3474026 | The University of Tokyo                                              |            |         |            |        |
| 3474026 | TE Connectivity KISSLING Products GmbH                               | 18/10/2018 | 3474026 | 18201163.5 | German |
| 3474186 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                 | 16/08/2018 | 3474186 | 18189334.8 |        |
| 3474511 | Google LLC                                                           | 20/10/2017 | 3474511 | 17306441.1 |        |
| 3477498 | SAP SE                                                               | 15/11/2017 | 3477498 | 17001872.5 |        |
| 3477499 | SAP SE                                                               | 21/11/2017 | 3477499 | 17001902.0 |        |
| 3479595 | Nokia Technologies Oy                                                | 20/06/2017 | 3479595 | 17819413.0 |        |
| 3480237 | HILTI Aktiengesellschaft                                             | 05/11/2018 | 3480237 | 18204293.7 | German |
| 3482892 | Müller Martini Holding AG                                            | 02/11/2018 | 3482892 | 18204045.1 | German |
| 3483685 | ABB Schweiz AG                                                       | 22/02/2018 | 3483685 | 18158091.1 |        |
| 3487512 | Cerapedics, Inc.                                                     | 25/07/2017 | 3487512 | 17835086.4 |        |
| 3487730 | Siemens Healthcare Diagnostics Inc.                                  | 19/07/2017 | 3487730 | 17831824.2 |        |
| 3491281 | Voss Automotive GmbH                                                 | 27/07/2017 | 3491281 | 17752284.4 | German |
| 3491733 | Protean Electric Limited                                             | 31/07/2017 | 3491733 | 17761921.0 |        |
| 3492120 | DEKA Products Limited Partnership                                    | 27/02/2008 | 3492120 | 18194751.6 |        |
| 3492445 | Evonik Oxeno GmbH & Co. KG                                           | 29/11/2018 | 3492445 | 18209275.9 | German |
| 3493269 | INTEL Corporation                                                    | 30/10/2018 | 3493269 | 18203559.2 |        |
| 3493801 | Abfero Pharmaceuticals, Inc.                                         | 04/08/2017 | 3493801 | 17837761.0 |        |
|         | University of Florida Research Foundation, Inc.                      |            |         |            |        |
| 3494309 | DAIKIN INDUSTRIES, LTD.                                              | 01/08/2017 | 3494309 | 17751203.5 |        |
| 3497755 | Samtec, Inc.                                                         | 15/08/2017 | 3497755 | 17841983.4 |        |
| 3498709 | Promega Corporation                                                  | 02/11/2011 | 3498709 | 19150036.2 |        |
| 3502979 | Nokia Technologies Oy                                                | 22/12/2017 | 3502979 | 17210461.4 |        |
| 3507629 | Viavi Solutions Inc.                                                 | 31/08/2017 | 3507629 | 17847588.5 |        |
| 3508189 | Avent, Inc.                                                          | 12/09/2013 | 3508189 | 19158579.3 |        |
| 3512775 | VANRX Pharmsystems Inc.                                              | 12/09/2017 | 3512775 | 17849957.0 |        |
| 3512889 | Lummus Technology LLC                                                | 16/09/2016 | 3512889 | 16916367.2 |        |
| 3513564 | DTS LLC                                                              | 12/09/2017 | 3513564 | 17777114.4 |        |
| 3514600 | Leica Instruments (Singapore) Pte. Ltd.                              | 19/01/2018 | 3514600 | 18152617.9 |        |
| 3515611 | ACM Research (Shanghai) Inc.                                         | 19/09/2016 | 3515611 | 16916051.2 |        |
| 3516314 | Praxair Technology, Inc.                                             | 07/09/2017 | 3516314 | 17772797.1 |        |
| 3516485 | Magic Leap, Inc.                                                     | 25/09/2017 | 3516485 | 17854090.2 |        |
| 3516500 | Altera Corporation                                                   | 27/07/2017 | 3516500 | 17853593.6 |        |
| 3517174 | Fusmobile, Inc.                                                      | 26/08/2015 | 3517174 | 19160576.5 |        |
| 3517281 | Jiangsu Hengrui Carbon Fiber Technology Co., Ltd.                    | 20/09/2017 | 3517281 | 17852364.3 |        |
| 3518088 | Huawei Technologies Co., Ltd.                                        | 14/10/2016 | 3518088 | 16918487.6 |        |
| 3519216 | Bergstrom, Inc.                                                      | 25/09/2017 | 3519216 | 17780954.8 |        |
| 3522801 | Acumed LLC                                                           | 03/10/2017 | 3522801 | 17859000.6 |        |
| 3523790 | E*Dray 20/20 LLC                                                     | 04/10/2017 | 3523790 | 17859095.6 |        |
| 3524166 | Samsung Medison Co., Ltd.                                            | 10/08/2018 | 3524166 | 18188544.3 |        |
| 3525176 | GEOTAB Inc.                                                          | 15/11/2018 | 3525176 | 18206431.1 |        |
| 3525837 | Terumo BCT, Inc.                                                     | 13/10/2017 | 3525837 | 17791837.2 |        |
| 3526022 | EMBA Holding Aktiebolag                                              | 12/10/2017 | 3526022 | 17859530.2 |        |
| 3531099 | Subaru Corporation                                                   | 05/11/2018 | 3531099 | 18204357.0 |        |
| 3534793 | Arizona Board of Regents on behalf of the University of Arizona      | 03/11/2017 | 3534793 | 17875181.4 |        |
| 3534808 | VFLO Macao Limited                                                   | 03/11/2017 | 3534808 | 17866598.0 |        |

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| 3535318 | Omya International AG                                                                                        | 06/11/2017 | 3535318 | 17801624.2 |        |
| 3535792 | Celgard, LLC                                                                                                 | 07/11/2017 | 3535792 | 17867409.9 |        |
| 3537464 | Kemet Electronics Corporation                                                                                | 27/02/2019 | 3537464 | 19159769.9 |        |
| 3538381 | EXOKINETICS, INC.                                                                                            | 06/11/2017 | 3538381 | 17870030.8 |        |
| 3538520 | Tisento Therapeutics Inc.                                                                                    | 07/11/2017 | 3538520 | 17804735.3 |        |
| 3538768 | Fluid Handling LLC                                                                                           | 14/11/2017 | 3538768 | 17869696.9 |        |
| 3538871 | Mikrowellen Labor Technik AG                                                                                 | 10/11/2017 | 3538871 | 17797334.4 | German |
| 3539227 | Google LLC                                                                                                   | 27/09/2017 | 3539227 | 17785076.5 |        |
| 3541210 | International Tobacco Machinery Poland Sp. z o.o.                                                            | 15/11/2017 | 3541210 | 17800501.3 |        |
| 3541447 | Owen Mumford Limited                                                                                         | 17/11/2017 | 3541447 | 17817823.2 |        |
| 3541546 | ADM28 France                                                                                                 | 14/11/2017 | 3541546 | 17818048.5 | French |
| 3544607 | Seattle Project Corp.                                                                                        | 22/11/2017 | 3544607 | 17873940.5 |        |
| 3544614 | Lipocine Inc.                                                                                                | 28/11/2017 | 3544614 | 17874365.4 |        |
| 3547292 | CAE Inc.                                                                                                     | 29/03/2019 | 3547292 | 19166039.8 |        |
| 3547848 | Green Spot Technologies                                                                                      | 29/11/2017 | 3547848 | 17876310.8 |        |
| 3548448 | Rain Carbon Germany GmbH                                                                                     | 27/11/2017 | 3548448 | 17807821.8 | German |
| 3549101 | InterDigital CE Patent Holdings                                                                              | 30/11/2017 | 3549101 | 17812259.4 |        |
| 3550408 | Shenzhen Goodix Technology Co., Ltd.                                                                         | 05/01/2018 | 3550408 | 18893325.3 |        |
| 3550638 | LG Energy Solution, Ltd.                                                                                     | 21/06/2018 | 3550638 | 18819917.8 |        |
| 3552560 | Covidien LP                                                                                                  | 10/04/2019 | 3552560 | 19168517.1 |        |
| 3553168 | Georgetown University                                                                                        | 11/11/2011 | 3553168 | 19174241.0 |        |
| 3553676 | Huawei Technologies Co., Ltd.                                                                                | 25/07/2017 | 3553676 | 17885725.6 |        |
| 3553812 | Heraeus Electronics GmbH & Co. KG                                                                            | 11/04/2018 | 3553812 | 18166812.0 | German |
| 3561774 | Samsung Electronics Co., Ltd.                                                                                | 27/11/2017 | 3561774 | 17892884.2 |        |
| 3562211 | Fujitsu Limited                                                                                              | 23/12/2016 | 3562211 | 16924419.1 |        |
| 3563131 | TE Connectivity Germany GmbH                                                                                 | 29/12/2017 | 3563131 | 17822343.4 |        |
| 3564703 | Lambda: 4 Entwicklungen GmbH                                                                                 | 01/04/2019 | 3564703 | 19166608.0 | German |
| 3568174 | Tandem Diabetes Care, Inc.                                                                                   | 11/01/2018 | 3568174 | 18739039.8 |        |
| 3572913 | THE CALANY Holding S.à.r.l.                                                                                  | 24/05/2019 | 3572913 | 19176426.5 |        |
| 3576053 | Casio Computer Co., Ltd.                                                                                     | 01/11/2018 | 3576053 | 18893045.7 |        |
| 3576750 | Svenningsson, Per<br>Leinartaite, Lina<br>Otrocka, Magdalena<br>Hasimbegovic, Vedran<br>Pettersson, Birgitta | 06/02/2018 | 3576750 | 18747344.2 |        |
| 3578514 | Tokuyama Corporation                                                                                         | 07/03/2018 | 3578514 | 18763924.0 |        |
| 3586678 | Appeltshauser, Georg                                                                                         | 24/06/2019 | 3586678 | 19000300.4 | German |
| 3588385 | BOE Technology Group Co., Ltd.                                                                               | 17/11/2017 | 3588385 | 17897328.5 |        |
| 3590085 | Diebold Nixdorf Incorporated                                                                                 | 01/03/2018 | 3590085 | 18710984.8 |        |
| 3593899 | Titan Kogyo Kabushiki Kaisha                                                                                 | 01/03/2018 | 3593899 | 18763923.2 |        |
| 3594086 | Hitachi Rail GTS Canada Inc.                                                                                 | 01/03/2016 | 3594086 | 19195002.1 |        |
| 3594307 | Kabushiki Kaisha Riken                                                                                       | 27/03/2018 | 3594307 | 18775222.5 |        |
| 3594854 | Tata Consultancy Services Limited                                                                            | 03/07/2019 | 3594854 | 19184188.1 |        |
| 3596137 | Sun Chemical Corporation                                                                                     | 14/03/2018 | 3596137 | 18768242.2 |        |
| 3596580 | Qualcomm Incorporated                                                                                        | 26/02/2018 | 3596580 | 18710252.0 |        |
| 3596657 | Smith & Nephew, Inc.                                                                                         | 14/03/2018 | 3596657 | 18767755.4 |        |
| 3596924 | Google LLC                                                                                                   | 20/02/2018 | 3596924 | 18708822.4 |        |
| 3597400 | The Boeing Company                                                                                           | 19/06/2019 | 3597400 | 19181287.4 |        |
| 3598530 | Tyco Electronics Belgium EC bvba                                                                             | 11/07/2019 | 3598530 | 19185723.4 |        |
| 3600755 | Kirchhoff Automotive Deutschland GmbH                                                                        | 19/03/2018 | 3600755 | 18713829.2 | German |
| 3602184 | Johnson & Johnson Surgical Vision, Inc.                                                                      | 23/03/2018 | 3602184 | 18718978.2 |        |
| 3603665 | Cancer Research Technology Limited                                                                           | 27/04/2016 | 3603665 | 19196027.7 |        |
| 3603666 | Cancer Research Technology Limited                                                                           | 27/04/2016 | 3603666 | 19196028.5 |        |
| 3604026 | ALSTOM Holdings                                                                                              | 03/08/2018 | 3604026 | 18306069.8 |        |
| 3605384 | Aptiv Technologies AG                                                                                        | 03/08/2018 | 3605384 | 18187237.5 |        |
| 3605548 | GE Precision Healthcare LLC                                                                                  | 25/07/2019 | 3605548 | 19188483.2 |        |
| 3605661 | LG Energy Solution, Ltd.                                                                                     | 12/11/2018 | 3605661 | 18885232.1 |        |
| 3605794 | Rockwell Collins, Inc.                                                                                       | 23/07/2019 | 3605794 | 19187847.9 |        |
| 3607349 | LG Innotek Co., Ltd.                                                                                         | 04/04/2018 | 3607349 | 18720831.9 |        |
| 3607403 | ACTLIGHT S.A.                                                                                                | 05/04/2018 | 3607403 | 18724611.1 |        |
| 3608620 | Tranter, Inc.                                                                                                | 15/07/2019 | 3608620 | 19186336.4 |        |

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| 3609910 | Kerry Group Services International Ltd                | 11/04/2018 | 3609910 | 18716624.4 |        |
| 3612330 | Xjet Ltd.                                             | 18/04/2018 | 3612330 | 18787496.1 |        |
| 3614998 | The Procter & Gamble Company                          | 25/04/2018 | 3614998 | 18727910.4 |        |
| 3616005 | Macdermid Graphics Solutions, LLC                     | 03/04/2018 | 3616005 | 18791094.8 |        |
| 3617494 | Mahle International GmbH                              | 28/08/2018 | 3617494 | 18191247.8 |        |
| 3619481 | Rolls-Royce North American Technologies, Inc.         | 27/04/2018 | 3619481 | 18794536.5 |        |
| 3621771 | 3M Innovative Properties Company                      | 11/05/2018 | 3621771 | 18728750.3 |        |
| 3623002 | A.V. Medical Technologies, Ltd.                       | 08/01/2014 | 3623002 | 19173552.1 |        |
| 3624330 | JTEKT CORPORATION                                     | 09/09/2019 | 3624330 | 19196176.2 |        |
| 3624698 | Merit Medical Systems, Inc.                           | 15/05/2018 | 3624698 | 18801940.0 |        |
| 3625096 | Waymo LLC                                             | 27/06/2018 | 3625096 | 18832541.9 |        |
| 3626313 | Koatsu Co., Ltd.                                      | 15/05/2018 | 3626313 | 18803056.3 |        |
| 3627405 | Daikin Industries, Ltd.                               | 08/05/2018 | 3627405 | 18802227.1 |        |
| 3630023 | S & S Sàrl                                            | 31/05/2017 | 3630023 | 17730700.6 | French |
| 3630872 | NanoXplore Inc.                                       | 31/05/2018 | 3630872 | 18810007.7 |        |
| 3631363 | Starship Technologies OÜ                              | 23/05/2018 | 3631363 | 18724911.5 |        |
| 3631470 | University of Miami                                   | 25/05/2018 | 3631470 | 18806705.2 |        |
|         | Queen Mary University of London                       |            |         |            |        |
| 3636145 | Samsung Electronics Co., Ltd.                         | 19/06/2019 | 3636145 | 19181192.6 |        |
| 3636437 | Lehner GmbH                                           | 12/10/2018 | 3636437 | 18200210.5 | German |
| 3637313 | Samsung Electronics Co., Ltd.                         | 07/10/2019 | 3637313 | 19201702.8 |        |
| 3637433 | Cordio Medical Ltd.                                   | 07/10/2019 | 3637433 | 19201720.0 |        |
| 3639415 | ZTE Corporation                                       | 16/06/2017 | 3639415 | 17913606.4 |        |
| 3641768 | iCell Gene Therapeutics LLC                           | 20/06/2018 | 3641768 | 18820957.1 |        |
| 3644292 | Sumitomo Electric Optifrontier Co., Ltd.              | 23/06/2017 | 3644292 | 17914431.6 |        |
| 3644523 | LG Electronics Inc.                                   | 22/06/2018 | 3644523 | 18820435.8 |        |
| 3644690 | Toyo Seikan Group Holdings, Ltd.                      | 18/06/2018 | 3644690 | 18819656.2 |        |
| 3644778 | iSi Wearable Safety GmbH                              | 28/06/2018 | 3644778 | 18825454.4 |        |
| 3645336 | Trojan Energy Limited                                 | 28/06/2018 | 3645336 | 18752182.8 |        |
| 3645361 | Skyryse, Inc.                                         | 28/02/2018 | 3645361 | 18744623.2 |        |
| 3645652 | EcoSynthetix Inc.                                     | 29/06/2018 | 3645652 | 18823893.5 |        |
| 3645692 | Novozymes A/S                                         | 27/06/2018 | 3645692 | 18734801.6 |        |
| 3647316 | Samyang Corporation                                   | 17/04/2018 | 3647316 | 18823847.1 |        |
| 3648546 | Kurabe Industrial Co., Ltd.                           | 26/06/2018 | 3648546 | 18823834.9 |        |
| 3648742 | Renmatix, Inc.                                        | 05/07/2018 | 3648742 | 18827978.0 |        |
| 3651450 | BRILLNICS SINGAPORE PTE. LTD.                         | 29/06/2018 | 3651450 | 18828179.4 |        |
| 3651488 | Telia Company AB                                      | 04/11/2019 | 3651488 | 19206809.6 |        |
| 3652784 | Micron Technology, Inc.                               | 21/06/2018 | 3652784 | 18831466.0 |        |
| 3652915 | Symantec Corporation                                  | 09/07/2018 | 3652915 | 18831333.2 |        |
| 3653585 | Schenker Italia S.r.l.                                | 12/11/2019 | 3653585 | 19208720.3 |        |
| 3653964 | LG Electronics Inc.                                   | 15/11/2019 | 3653964 | 19209336.7 |        |
| 3653971 | LG Electronics Inc.                                   | 15/11/2019 | 3653971 | 19209295.5 |        |
| 3654251 | Siemens Healthineers AG                               | 13/11/2018 | 3654251 | 18205964.2 |        |
| 3654358 | Infineon Technologies Austria AG                      | 15/11/2018 | 3654358 | 18206559.9 |        |
| 3655489 | Sun Chemical Corporation                              | 18/07/2018 | 3655489 | 18835696.8 |        |
| 3655581 | General Nano LLC                                      | 20/07/2018 | 3655581 | 18774164.0 |        |
| 3656506 | Ferton Holding S.A.                                   | 23/11/2018 | 3656506 | 18208073.9 |        |
| 3657225 | OFS Fitel, LLC (a Delaware Limited Liability Company) | 11/11/2019 | 3657225 | 19208347.5 |        |
| 3657581 | Samsung SDI Co., Ltd.                                 | 13/11/2019 | 3657581 | 19208992.8 |        |
| 3657863 | Vivo Mobile Communication Co., Ltd.                   | 28/06/2018 | 3657863 | 18835774.3 |        |
| 3657979 | Chanel Parfums Beauté                                 | 20/07/2018 | 3657979 | 18752599.3 | French |
| 3660148 | MGI Tech Co., Ltd.                                    | 09/08/2017 | 3660148 | 17919146.5 |        |
| 3660729 | Samsung Electronics Co., Ltd.                         | 31/07/2018 | 3660729 | 18849299.5 |        |
| 3660932 | Micron Technology, INC.                               | 30/11/2018 | 3660932 | 18209507.5 |        |
| 3660943 | Panasonic Energy Co., Ltd.                            | 25/07/2018 | 3660943 | 18837265.0 |        |
| 3662128 | Forel Spa                                             | 26/07/2018 | 3662128 | 18742827.1 |        |
| 3663213 | Henkel AG & Co. KGaA                                  | 11/11/2019 | 3663213 | 19208230.3 | German |
| 3663378 | Merck Patent GmbH                                     | 19/11/2015 | 3663378 | 19217441.5 | German |
| 3665138 | Sabir Agri-Nutrients Company                          | 07/08/2018 | 3665138 | 18765186.4 |        |
| 3666903 | Bio-Rad Laboratories, Inc.                            | 12/08/2014 | 3666903 | 19220100.2 |        |

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| 3668191 | Huawei Technologies Co., Ltd.                                                                          | 23/08/2018 | 3668191 | 18847662.6 |        |
| 3668373 | Verily Life Sciences LLC                                                                               | 01/08/2018 | 3668373 | 18847089.2 |        |
| 3669530 | Jio Platforms Limited                                                                                  | 13/08/2018 | 3669530 | 18846897.9 |        |
| 3671580 | Accenture Global Solutions Limited                                                                     | 29/11/2019 | 3671580 | 19212369.3 |        |
| 3671699 | Samsung Electronics Co., Ltd.                                                                          | 20/11/2019 | 3671699 | 19210490.9 |        |
| 3674851 | Capital One Services, LLC                                                                              | 07/07/2017 | 3674851 | 19207116.5 |        |
| 3678071 | Tata Consultancy Services Limited                                                                      | 29/08/2019 | 3678071 | 19194346.3 |        |
| 3678283 | LG Magna e-Powertrain Co., Ltd.                                                                        | 01/08/2019 | 3678283 | 19189555.6 |        |
| 3678421 | Rakuten Group, Inc.                                                                                    | 30/08/2017 | 3678421 | 17923104.8 |        |
| 3679360 | Rocsole Ltd.                                                                                           | 06/09/2017 | 3679360 | 17924660.8 |        |
| 3679853 | FUJIFILM Corporation                                                                                   | 09/07/2018 | 3679853 | 18853256.8 |        |
| 3679989 | The Boeing Company                                                                                     | 28/11/2019 | 3679989 | 19212276.0 |        |
|         | King Abdullah University Of Science And Technology                                                     |            |         |            |        |
| 3681083 | Huawei Technologies Co., Ltd.                                                                          | 14/10/2015 | 3681083 | 19195770.3 |        |
| 3685668 | Industry Foundation of Chonnam National University                                                     | 17/09/2018 | 3685668 | 18859305.7 |        |
|         | Pusan National University Industry-University Cooperation Foundation                                   |            |         |            |        |
| 3686160 | LG Energy Solution, Ltd.                                                                               | 13/11/2018 | 3686160 | 18875086.3 |        |
| 3687019 | Solaredge Technologies Ltd.                                                                            | 17/05/2017 | 3687019 | 19217486.0 |        |
| 3687163 | Samsung Sds Co., Ltd.                                                                                  | 22/05/2019 | 3687163 | 19812639.3 |        |
| 3689383 | The United States Of America, As Represented By The Secretary, Department of Health and Human Services | 15/03/2013 | 3689383 | 19216091.9 |        |
| 3691303 | Vivo Mobile Communication Co., Ltd.                                                                    | 06/09/2018 | 3691303 | 18861017.4 |        |
| 3692170 | Koninklijke Philips N.V.                                                                               | 01/10/2018 | 3692170 | 18782384.4 |        |
| 3693298 | ISHIDA CO., Ltd.                                                                                       | 06/02/2020 | 3693298 | 20155832.7 |        |
| 3694412 | Covidien LP                                                                                            | 10/10/2018 | 3694412 | 18865691.2 |        |
| 3694487 | Georgia Tech Research Corporation                                                                      | 11/10/2018 | 3694487 | 18796279.0 |        |
| 3694917 | SI Group-Switzerland GmbH                                                                              | 11/10/2018 | 3694917 | 18786735.3 |        |
| 3696738 | ABB Schweiz AG                                                                                         | 12/02/2019 | 3696738 | 19156742.9 |        |
| 3697349 | Ottobock SE & Co. KGaA                                                                                 | 09/10/2018 | 3697349 | 18783480.9 | German |
| 3697759 | Vanderbilt University                                                                                  | 20/10/2018 | 3697759 | 18869444.2 |        |
| 3698164 | Arriver Software LLC                                                                                   | 16/10/2018 | 3698164 | 18867627.4 |        |
| 3699259 | Idemitsu Kosan Co.,Ltd.                                                                                | 27/09/2018 | 3699259 | 18868808.9 |        |
| 3699677 | Seki, Norio                                                                                            | 16/10/2018 | 3699677 | 18869095.2 |        |
| 3699821 | Cognex Corporation                                                                                     | 20/12/2012 | 3699821 | 20162550.6 |        |
| 3700487 | Lindqvist, Roland John                                                                                 | 24/10/2018 | 3700487 | 18870868.9 |        |
| 3701748 | Qualcomm Incorporated                                                                                  | 28/09/2018 | 3701748 | 18792639.9 |        |
| 3702266 | Airbus Operations Limited                                                                              | 19/02/2020 | 3702266 | 20158363.0 |        |
| 3702805 | STMicroelectronics (Research & Development) Limited                                                    | 28/02/2019 | 3702805 | 19160078.2 |        |
| 3704019 | Textron Systems Corporation                                                                            | 02/11/2018 | 3704019 | 18804211.3 |        |
| 3704091 | Calico Life Sciences LLC                                                                               | 02/11/2018 | 3704091 | 18815387.8 |        |
|         | AbbVie Inc.                                                                                            |            |         |            |        |
| 3704199 | Zephyros, Inc.                                                                                         | 02/11/2018 | 3704199 | 18822522.1 |        |
| 3704708 | Tigar Health, Inc.                                                                                     | 02/11/2018 | 3704708 | 18874594.7 |        |
| 3706091 | Technopartner Rastreamento EIRELI - ME                                                                 | 03/11/2017 | 3706091 | 17930490.2 |        |
| 3707127 | The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.                         | 09/11/2018 | 3707127 | 18875928.6 |        |
| 3707560 | ASML Netherlands B.V.                                                                                  | 16/10/2018 | 3707560 | 18786339.4 |        |
| 3708325 | MITSUBISHI CHEMICAL CORPORATION                                                                        | 24/06/2016 | 3708325 | 20165847.3 |        |
| 3709596 | NXP B.V.                                                                                               | 20/02/2020 | 3709596 | 20158473.7 |        |
| 3709625 | Vivo Mobile Communication Co., Ltd.                                                                    | 08/11/2018 | 3709625 | 18875717.3 |        |
| 3709821 | Krones AG                                                                                              | 26/07/2018 | 3709821 | 18746920.0 | German |
| 3709830 | Lewis, Jeff                                                                                            | 13/11/2018 | 3709830 | 18876167.0 |        |
| 3709910 | Multi4 Medical AB                                                                                      | 14/12/2018 | 3709910 | 18892325.4 |        |
| 3710154 | Cytiva Sweden AB                                                                                       | 15/11/2018 | 3710154 | 18810921.9 |        |
| 3710360 | Syntegon Technology GmbH                                                                               | 24/09/2018 | 3710360 | 18781987.5 | German |
| 3710915 | Neurable Inc.                                                                                          | 13/11/2018 | 3710915 | 18875541.7 |        |

|         |                                                                                                                            |            |         |            |        |
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| 3711032 | Xtract360 Ltd                                                                                                              | 16/11/2018 | 3711032 | 18808470.1 |        |
| 3711178 | Nokia Shanghai Bell Co., Ltd.                                                                                              | 17/11/2017 | 3711178 | 17931917.3 |        |
| 3711184 | Telefonaktiebolaget LM Ericsson (PUBL)                                                                                     | 15/11/2018 | 3711184 | 18812285.7 |        |
| 3712988 | LG Energy Solution, Ltd.                                                                                                   | 16/11/2018 | 3712988 | 18877799.9 |        |
| 3713340 | LG ELECTRONICS INC.                                                                                                        | 19/11/2018 | 3713340 | 18877879.9 |        |
| 3713846 | Kardex Produktion Deutschland GmbH                                                                                         | 21/11/2018 | 3713846 | 18807313.4 | German |
| 3714053 | The University of Chicago                                                                                                  | 21/11/2018 | 3714053 | 18880198.9 |        |
| 3714279 | Nanotools GmbH                                                                                                             | 13/11/2018 | 3714279 | 18803931.7 | German |
| 3714429 | InterDigital VC Holdings, Inc.                                                                                             | 06/11/2018 | 3714429 | 18803844.2 |        |
| 3715439 | Obshchestvo s Ogranichennoy<br>Otvetstvennost'yu "Obedinennaya<br>Kompaniya Rusal Inzhenerno-<br>Tekhnologicheskoy Tsentr" | 06/11/2018 | 3715439 | 18879648.6 |        |
| 3716646 | Nitto Denko Corporation                                                                                                    | 20/11/2018 | 3716646 | 18881786.0 |        |
| 3716903 | ID Nest Medical                                                                                                            | 15/11/2018 | 3716903 | 18819192.8 | French |
| 3716968 | Anavex Life Sciences Corp.                                                                                                 | 28/11/2018 | 3716968 | 18884002.9 |        |
| 3717546 | Technikum Laubholz GmbH                                                                                                    | 29/11/2018 | 3717546 | 18812130.5 | German |
| 3719050 | Resonac Corporation                                                                                                        | 30/11/2017 | 3719050 | 17933725.8 |        |
| 3720414 | Unilever Global IP Limited                                                                                                 | 02/11/2018 | 3720414 | 18796646.0 |        |
| 3721416 | Qualcomm Incorporated                                                                                                      | 28/11/2018 | 3721416 | 18819427.8 |        |
| 3722704 | Rolls-Royce North American Technologies,<br>Inc.                                                                           | 30/03/2020 | 3722704 | 20166551.0 |        |
| 3723146 | LG Innotek Co., Ltd.                                                                                                       | 19/11/2018 | 3723146 | 18885309.7 |        |
| 3724550 | Universal Electronics Inc.                                                                                                 | 06/11/2018 | 3724550 | 18888070.2 |        |
| 3726426 | Tencent Technology (Shenzhen) Company<br>Limited                                                                           | 23/11/2018 | 3726426 | 18887500.9 |        |
| 3727306 | Kao Germany GmbH                                                                                                           | 06/12/2018 | 3727306 | 18825575.6 |        |
| 3728054 | Espera-Werke GmbH                                                                                                          | 31/08/2018 | 3728054 | 18762828.4 | German |
| 3728820 | Cummins, Inc.                                                                                                              | 06/11/2018 | 3728820 | 18891930.2 |        |
| 3730541 | TOYOBO CO., LTD.                                                                                                           | 20/11/2018 | 3730541 | 18891878.3 |        |
| 3731506 | Vivo Mobile Communication Co., Ltd.                                                                                        | 30/11/2018 | 3731506 | 18892474.0 |        |
| 3733324 | RTX Corporation                                                                                                            | 01/05/2020 | 3733324 | 20172602.3 |        |
| 3736203 | Kawasaki Jukogyo Kabushiki Kaisha                                                                                          | 02/10/2019 | 3736203 | 19868571.1 |        |
| 3737169 | HUAWEI TECHNOLOGIES CO., LTD.                                                                                              | 21/01/2019 | 3737169 | 19746714.5 |        |
| 3737235 | BASF SE                                                                                                                    | 08/01/2019 | 3737235 | 19700224.9 |        |
| 3739413 | TLV Co., Ltd.                                                                                                              | 07/08/2015 | 3739413 | 20184009.7 |        |
| 3740468 | Sunshine Lake Pharma Co., Ltd.                                                                                             | 18/01/2019 | 3740468 | 19741784.3 |        |
| 3740878 | STATS LLC                                                                                                                  | 22/01/2019 | 3740878 | 19741311.5 |        |
| 3742337 | SISTO Armaturen S.A.                                                                                                       | 19/05/2020 | 3742337 | 20175488.4 | German |
| 3742726 | Coretronic Corporation                                                                                                     | 20/05/2020 | 3742726 | 20175781.2 |        |
| 3743356 | British American Tobacco (Investments)<br>Limited                                                                          | 18/01/2019 | 3743356 | 19705989.2 |        |
| 3743379 | Mühl Engineering Systems GmbH                                                                                              | 28/11/2018 | 3743379 | 18811018.3 |        |
| 3745322 | D-Wave Systems Inc.                                                                                                        | 06/07/2012 | 3745322 | 20166492.7 |        |
| 3745496 | Black & Decker Inc.                                                                                                        | 03/11/2015 | 3745496 | 20184474.3 |        |
| 3746263 | Shaper Tools, Inc.                                                                                                         | 29/01/2019 | 3746263 | 19744134.8 |        |
| 3746741 | Cornell University                                                                                                         | 04/02/2019 | 3746741 | 19747141.0 |        |
| 3746743 | Microsoft Technology Licensing, LLC                                                                                        | 09/03/2019 | 3746743 | 19713278.0 |        |
| 3748238 | MITSUBISHI HEAVY INDUSTRIES<br>THERMAL SYSTEMS, LTD.                                                                       | 08/11/2018 | 3748238 | 18904199.9 |        |
| 3749675 | Reata Pharmaceuticals, Inc.                                                                                                | 01/02/2019 | 3749675 | 19705879.5 |        |
| 3749709 | Nouryon Chemicals International B.V.                                                                                       | 06/02/2019 | 3749709 | 19702296.5 |        |
| 3750535 | Amarin Pharmaceuticals Ireland Limited                                                                                     | 22/04/2019 | 3750535 | 20189100.9 |        |
| 3750536 | Amarin Pharmaceuticals Ireland Limited                                                                                     | 22/04/2019 | 3750536 | 20189112.4 |        |
| 3750579 | Daicel Corporation                                                                                                         | 08/02/2019 | 3750579 | 19751322.9 |        |
| 3750926 | PPG Industries Ohio, Inc.                                                                                                  | 09/09/2016 | 3750926 | 20190048.7 |        |
| 3754422 | CANON KABUSHIKI KAISHA                                                                                                     | 01/06/2020 | 3754422 | 20177688.7 |        |
| 3754429 | BROTHER KOGYO KABUSHIKI<br>KAISHA                                                                                          | 05/06/2020 | 3754429 | 20178509.4 |        |
| 3754634 | BOE Technology Group Co., Ltd.<br>Hefei Xinsheng Optoelectronics<br>Technology Co., Ltd.                                   | 09/11/2018 | 3754634 | 18884840.2 |        |

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|---------|----------------------------------------------------------------|------------|---------|------------|--------|
| 3756707 | Sanofi-Aventis Deutschland GmbH                                | 08/02/2013 | 3756707 | 20187731.3 |        |
| 3758601 | Mayo Foundation for Medical Education and Research             | 26/02/2019 | 3758601 | 19757457.7 |        |
|         | Arizona Board of Regents on behalf of Arizona State University |            |         |            |        |
| 3758634 | VB SPINE US OPCO LLC                                           | 26/02/2019 | 3758634 | 19710881.4 |        |
| 3761103 | Coretronic Corporation                                         | 05/07/2019 | 3761103 | 19184706.0 |        |
| 3761275 | Fujitsu Frontech Limited                                       | 27/02/2018 | 3761275 | 18908228.2 |        |
| 3761723 | QUALCOMM Incorporated                                          | 23/06/2009 | 3761723 | 20193199.5 |        |
| 3762230 | Ricoh Company, Ltd.                                            | 06/03/2019 | 3762230 | 19713882.9 |        |
|         | University of Washington                                       |            |         |            |        |
| 3762560 | Systems Pty Ltd                                                | 06/03/2019 | 3762560 | 19764002.2 |        |
| 3762597 | Rolls-Royce Solutions GmbH                                     | 27/02/2019 | 3762597 | 19708465.0 | German |
| 3762666 | HC United B.V.                                                 | 27/02/2019 | 3762666 | 19708461.9 |        |
| 3763610 | YAMAHA HATSUDOKI KABUSHIKI KAISHA                              | 08/06/2020 | 3763610 | 20178700.9 |        |
| 3763667 | Unilogo Robotics Sp. z o.o.                                    | 10/01/2020 | 3763667 | 20151272.0 |        |
| 3764369 | ResMed Sensor Technologies Limited                             | 23/09/2009 | 3764369 | 20174871.2 |        |
| 3765941 | VOLKSWAGEN AKTIENGESELLSCHAFT                                  | 18/02/2019 | 3765941 | 19706536.0 | German |
| 3766063 | SDL Limited                                                    | 13/03/2019 | 3766063 | 19713141.0 |        |
| 3766721 | Kässbohrer Geländefahrzeug AG                                  | 06/05/2020 | 3766721 | 20173114.8 | German |
| 3767073 | RTX Corporation                                                | 20/07/2020 | 3767073 | 20186780.1 |        |
| 3767614 | Samsung Display Co., Ltd.                                      | 17/07/2020 | 3767614 | 20186591.2 |        |
| 3768276 | VIB VZW                                                        | 22/03/2019 | 3768276 | 19711380.6 |        |
|         | Universiteit Gent                                              |            |         |            |        |
|         | Katholieke Universiteit Leuven, K.U.Leuven R&D                 |            |         |            |        |
| 3768596 | Elevate Aircraft Seating LLC                                   | 23/03/2018 | 3768596 | 18713882.1 |        |
| 3768823 | Cedars-Sinai Medical Center                                    | 22/03/2019 | 3768823 | 19771249.0 |        |
| 3769326 | Hitachi Energy Ltd                                             | 11/03/2019 | 3769326 | 19710663.6 |        |
| 3769718 | Implantica Patent Ltd.                                         | 10/10/2008 | 3769718 | 20160628.2 |        |
| 3770288 | Canon Kabushiki Kaisha                                         | 15/04/2019 | 3770288 | 19793961.4 |        |
| 3770481 | Leuze electronic GmbH + Co. KG                                 | 24/07/2019 | 3770481 | 19188061.6 | German |
| 3770808 | IVECO FRANCE S.A.S.                                            | 21/07/2020 | 3770808 | 20305833.4 |        |
| 3770835 | Accenture Global Solutions Limited                             | 23/07/2020 | 3770835 | 20187384.1 |        |
| 3770878 | JVCKENWOOD Corporation                                         | 22/02/2019 | 3770878 | 19770352.3 |        |
| 3771132 | Ofinno, LLC                                                    | 22/07/2020 | 3771132 | 20187137.3 |        |
| 3771209 | JVC KENWOOD Corporation                                        | 28/12/2012 | 3771209 | 20196497.0 |        |
| 3773379 | AMO Development, LLC                                           | 04/04/2019 | 3773379 | 19722201.1 |        |
| 3773958 | Streitmonster GmbH                                             | 29/03/2019 | 3773958 | 19714205.2 | German |
| 3776476 | Samsung Electronics Co., Ltd.                                  | 11/04/2019 | 3776476 | 19784245.3 |        |
| 3778137 | Google LLC                                                     | 14/08/2020 | 3778137 | 20191164.1 |        |
| 3779679 | Huawei Technologies Co., Ltd.                                  | 21/08/2019 | 3779679 | 19853402.6 |        |
| 3781034 | Abbott Diabetes Care Inc.                                      | 12/02/2019 | 3781034 | 19708711.7 |        |
| 3781428 | PIAGGIO & C. S.p.A.                                            | 16/04/2019 | 3781428 | 19721145.1 |        |
| 3781527 | Saint-Gobain Sekurit France                                    | 12/04/2019 | 3781527 | 19722670.7 | French |
| 3783189 | elero GmbH                                                     | 15/07/2020 | 3783189 | 20185847.9 | German |
| 3783346 | National University Corporation Tokyo                          | 03/04/2019 | 3783346 | 19787832.5 |        |
|         | University of Marine Science And Technology                    |            |         |            |        |
| 3784368 | Waters Technologies Corporation                                | 25/04/2019 | 3784368 | 19792678.5 |        |
| 3784386 | SGL Carbon SE                                                  | 28/11/2019 | 3784386 | 19812981.9 | German |
| 3784868 | Hydril Company                                                 | 25/04/2019 | 3784868 | 19732148.2 |        |
| 3785234 | Promaton Holding B.V.                                          | 26/04/2019 | 3785234 | 19719891.4 |        |
| 3785723 | Zhongshan Zhongzhi Pharmaceutical Group Co., Ltd.              | 15/03/2019 | 3785723 | 19791578.8 |        |
| 3790616 | Fisher & Paykel Healthcare Limited                             | 09/05/2019 | 3790616 | 19800701.5 |        |
| 3790662 | Astraveus                                                      | 21/06/2019 | 3790662 | 19732360.3 |        |
|         | ASSISTANCE PUBLIQUE HOPITAUX DE PARIS                          |            |         |            |        |
|         | Université Paris Cité                                          |            |         |            |        |



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| 3790801 | Safran Seats USA LLC                                                                                                   | 29/06/2018 | 3790801 | 18743333.9 |        |
| 3790853 | Yara International ASA                                                                                                 | 10/05/2019 | 3790853 | 19720750.9 |        |
| 3790957 | Universität Zürich                                                                                                     | 06/05/2019 | 3790957 | 19723059.2 |        |
| 3791857 | Hysensbio                                                                                                              | 17/04/2019 | 3791857 | 19800686.8 |        |
| 3792822 | The Boeing Company                                                                                                     | 05/06/2020 | 3792822 | 20178564.9 |        |
| 3795506 | SYNTEGON TELSTAR TECHNOLOGIES, S.L.U.                                                                                  | 20/04/2018 | 3795506 | 18915606.0 |        |
| 3796077 | BOE TECHNOLOGY GROUP CO., LTD.<br>Beijing BOE Technology Development Co., Ltd.                                         | 04/04/2019 | 3796077 | 19804564.3 |        |
| 3796896 | Klaria Pharma Holding AB                                                                                               | 23/05/2019 | 3796896 | 19726391.6 |        |
| 3797096 | Technip Energies France                                                                                                | 23/05/2019 | 3797096 | 19725204.2 | French |
| 3797716 | Frey, George                                                                                                           | 26/05/2015 | 3797716 | 20205488.8 |        |
| 3798697 | Optotune Switzerland AG                                                                                                | 12/05/2020 | 3798697 | 20174091.7 |        |
| 3799385 | WithSecure Corporation                                                                                                 | 23/09/2020 | 3799385 | 20197685.9 |        |
| 3800697 | LG Energy Solution, Ltd.                                                                                               | 13/11/2019 | 3800697 | 19889598.9 |        |
| 3801124 | Mediscene AG                                                                                                           | 04/06/2019 | 3801124 | 19729496.0 | German |
| 3803496 | Wilco International                                                                                                    | 07/06/2019 | 3803496 | 19790586.2 | French |
| 3803567 | NVOQ Incorporated                                                                                                      | 24/05/2019 | 3803567 | 19815017.9 |        |
| 3803685 | Blimp S.r.l.                                                                                                           | 24/05/2019 | 3803685 | 19737228.7 |        |
| 3803722 | Microsoft Technology Licensing, LLC                                                                                    | 16/05/2019 | 3803722 | 19729957.1 |        |
| 3806528 | China Unionpay Co., Ltd                                                                                                | 12/04/2019 | 3806528 | 19820177.4 |        |
| 3806571 | HUAWEI TECHNOLOGIES CO., LTD.                                                                                          | 03/06/2019 | 3806571 | 19830861.1 |        |
| 3806672 | Philip Morris Products S.A.                                                                                            | 13/06/2019 | 3806672 | 19731233.3 |        |
| 3807174 | SSI Schäfer Automation GmbH (DE)                                                                                       | 12/06/2019 | 3807174 | 19731207.7 | German |
| 3807279 | PTC Therapeutics MP, Inc.                                                                                              | 30/05/2019 | 3807279 | 19811127.0 |        |
| 3807427 | Alleima StripTech AB                                                                                                   | 12/06/2019 | 3807427 | 19737664.3 |        |
| 3807489 | Liebherr-Components Biberach GmbH                                                                                      | 27/06/2019 | 3807489 | 19735276.8 | German |
| 3807687 | CommScope Technologies LLC                                                                                             | 12/06/2019 | 3807687 | 19819610.7 |        |
| 3807900 | Brainlab SE                                                                                                            | 13/06/2019 | 3807900 | 19732294.4 |        |
| 3807921 | Lam Research Corporation                                                                                               | 23/05/2019 | 3807921 | 19820343.2 |        |
| 3808526 | Storopack Hans Reichenecker GmbH                                                                                       | 16/10/2019 | 3808526 | 19203553.3 |        |
| 3808826 | DIC Corporation                                                                                                        | 30/08/2018 | 3808826 | 18922600.4 |        |
| 3809323 | DENSO CORPORATION                                                                                                      | 15/10/2020 | 3809323 | 20201959.2 |        |
| 3809726 | Bang & Olufsen A/S                                                                                                     | 17/10/2019 | 3809726 | 19203830.5 |        |
| 3811318 | Visa International Service Association                                                                                 | 21/06/2019 | 3811318 | 19823700.0 |        |
| 3812320 | OMA S.R.L.                                                                                                             | 22/10/2020 | 3812320 | 20203286.8 |        |
| 3812565 | MITSUBISHI HEAVY INDUSTRIES, LTD.                                                                                      | 15/01/2020 | 3812565 | 20759195.9 |        |
| 3812814 | Volvo Car Corporation                                                                                                  | 23/10/2019 | 3812814 | 19204828.8 |        |
| 3813020 | CreateAI, Inc.                                                                                                         | 21/10/2020 | 3813020 | 20203066.4 |        |
| 3813122 | Samsung Display Co., Ltd.                                                                                              | 22/10/2020 | 3813122 | 20203273.6 |        |
| 3813790 | CSP Technologies, Inc.                                                                                                 | 28/06/2019 | 3813790 | 19740282.9 |        |
| 3814981 | Nokia Technologies Oy                                                                                                  | 26/06/2018 | 3814981 | 18924895.8 |        |
| 3816291 | Kyowa Kirin Co., Ltd.<br>Kagoshima University                                                                          | 26/06/2019 | 3816291 | 19826585.2 |        |
| 3817280 | Japan Communications, Inc.                                                                                             | 26/06/2019 | 3817280 | 19827367.4 |        |
| 3817548 | Fishtek Marine Ltd                                                                                                     | 04/07/2019 | 3817548 | 19759048.2 |        |
| 3817873 | Crane ChemPharma & Energy Corp.                                                                                        | 01/07/2019 | 3817873 | 19830826.4 |        |
| 3818091 | Covestro Deutschland AG                                                                                                | 01/07/2019 | 3818091 | 19733806.4 | German |
| 3818392 | Waymo LLC                                                                                                              | 19/07/2019 | 3818392 | 19845087.6 |        |
| 3818606 | ENSEA - Ecole Nationale Supérieure de L'Electronique et de ses Applications<br>The University of Alabama in Huntsville | 02/07/2019 | 3818606 | 19733835.3 | French |
| 3818756 | HERE Global B.V.                                                                                                       | 04/07/2018 | 3818756 | 18740532.9 |        |
| 3819092 | OptoTech AG                                                                                                            | 06/11/2019 | 3819092 | 19207375.7 | German |
| 3819347 | Coroplast Fritz Müller GmbH & Co. KG                                                                                   | 06/11/2019 | 3819347 | 19207433.4 | German |
| 3819574 | L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE                              | 03/11/2020 | 3819574 | 20205358.3 |        |
| 3819646 | Yamaichi Electronics Deutschland GmbH                                                                                  | 03/11/2020 | 3819646 | 20205314.6 | German |
| 3819647 | Yamaichi Electronics Deutschland GmbH                                                                                  | 03/11/2020 | 3819647 | 20205315.3 | German |

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| 3819712 | Toshiba TEC Kabushiki Kaisha                       | 18/09/2020 | 3819712 | 20196905.2 | French |
| 3820627 | Exel Industries                                    | 12/07/2019 | 3820627 | 19737757.5 |        |
| 3820946 | Haelixa AG                                         | 09/07/2019 | 3820946 | 19736727.9 |        |
| 3822187 | Graphic Packaging International, LLC               | 19/07/2018 | 3822187 | 20216023.0 |        |
| 3822576 | The Boeing Company                                 | 13/11/2020 | 3822576 | 20207640.2 |        |
| 3822909 | Leica Instruments (Singapore) Pte. Ltd.            | 11/11/2020 | 3822909 | 20206882.1 |        |
| 3822920 | Dassault Systèmes                                  | 18/11/2019 | 3822920 | 19306478.9 |        |
| 3823119 | Leia B.V.                                          | 12/11/2020 | 3823119 | 20207242.7 |        |
| 3823177 | Samsung Electronics Co., Ltd.                      | 12/11/2020 | 3823177 | 20207186.6 |        |
| 3823379 | Vivo Mobile Communication Co., Ltd.                | 03/07/2019 | 3823379 | 19833599.4 |        |
| 3824279 | Battelle Memorial Institute                        | 18/07/2019 | 3824279 | 19749100.4 |        |
| 3824748 | Juul Labs, Inc.                                    | 23/11/2018 | 3824748 | 20216524.7 |        |
| 3825556 | Pratt & Whitney Canada Corp.                       | 23/11/2020 | 3825556 | 20209243.3 |        |
| 3825723 | HAMAMATSU PHOTONICS K.K.                           | 10/06/2019 | 3825723 | 19837776.4 |        |
| 3826059 | Samsung Display Co., Ltd.                          | 30/07/2020 | 3826059 | 20188527.4 |        |
| 3826397 | Vivo Mobile Communication Co., Ltd.                | 19/07/2019 | 3826397 | 19837156.9 | German |
| 3827963 | NORDSON CORPORATION                                | 28/11/2019 | 3827963 | 19212184.6 |        |
| 3828122 | Liebherr-Hydraulikbagger GmbH                      | 10/11/2020 | 3828122 | 20206715.3 |        |
| 3828335 | Seiko Epson Corporation                            | 30/11/2020 | 3828335 | 20210754.6 |        |
| 3828418 | Sulzer Management AG                               | 12/08/2020 | 3828418 | 20190751.6 |        |
| 3828728 | Amadeus S.A.S.                                     | 03/11/2020 | 3828728 | 20205405.2 |        |
| 3828825 | Tencent Technology (Shenzhen) Company Limited      | 27/11/2019 | 3828825 | 19889004.8 |        |
| 3828849 | Verisure Sàrl                                      | 26/11/2019 | 3828849 | 19211597.0 |        |
| 3829094 | VIVO MOBILE COMMUNICATION CO., LTD.                | 19/07/2019 | 3829094 | 19840430.3 |        |
| 3829501 | The Johns Hopkins University                       | 05/08/2019 | 3829501 | 19843323.7 |        |
| 3830957 | Eagle Harbor Technologies, Inc.                    | 29/07/2019 | 3830957 | 19841903.8 |        |
| 3831578 | Slayer Blades S.r.l.                               | 26/11/2020 | 3831578 | 20210008.7 |        |
| 3831595 | FUJITSU LIMITED                                    | 17/11/2020 | 3831595 | 20208044.6 |        |
| 3831870 | Osaka Soda Co., Ltd.                               | 25/07/2019 | 3831870 | 19840205.9 | German |
| 3832692 | JEOL Ltd.                                          | 27/11/2020 | 3832692 | 20210453.5 |        |
| 3832809 | Kyocera Corporation                                | 17/07/2019 | 3832809 | 19840807.2 |        |
| 3833725 | Chevron U.S.A. Inc.                                | 07/08/2019 | 3833725 | 19759132.4 |        |
| 3834026 | Aurora Operations, Inc.                            | 25/07/2019 | 3834026 | 19847430.6 |        |
| 3834218 | TE Connectivity Solutions GmbH                     | 05/08/2019 | 3834218 | 19779107.2 |        |
| 3834496 | Sony Group Corporation                             | 07/08/2019 | 3834496 | 19748569.1 |        |
| 3835254 | MOBA Mobile Automation AG                          | 09/12/2020 | 3835254 | 20212823.7 |        |
| 3836618 | ZTE Corporation                                    | 10/08/2019 | 3836618 | 19846735.9 |        |
| 3837452 | NUCAP INDUSTRIES INC.                              | 09/08/2019 | 3837452 | 19849189.6 |        |
| 3837684 | Apple Inc.                                         | 20/09/2019 | 3837684 | 19783191.0 |        |
| 3837804 | Visa International Service Association             | 13/08/2019 | 3837804 | 19849539.2 |        |
| 3838542 | The Boeing Company                                 | 25/11/2020 | 3838542 | 20209778.8 |        |
| 3840886 | Battelle Memorial Institute                        | 20/08/2019 | 3840886 | 19762571.8 |        |
| 3841388 | Senseer Ltd                                        | 23/05/2019 | 3841388 | 19806965.0 | German |
| 3841485 | Arrcus Inc.                                        | 23/08/2019 | 3841485 | 19852312.8 |        |
| 3841703 | LG Electronics Inc.                                | 21/08/2019 | 3841703 | 19852665.9 |        |
| 3842106 | Tencent Technology (Shenzhen) Company Limited      | 26/11/2019 | 3842106 | 19898642.4 |        |
| 3842504 | Zeon Corporation                                   | 21/08/2019 | 3842504 | 19851681.7 |        |
| 3842679 | NIPPON STEEL CORPORATION                           | 01/07/2019 | 3842679 | 19851190.9 |        |
|         | Vallourec Oil and Gas France                       |            |         |            |        |
| 3842904 | QlikTech International AB                          | 09/05/2018 | 3842904 | 21157637.6 |        |
| 3843167 | Kyushu University, National University Corporation | 13/06/2019 | 3843167 | 19851486.1 |        |
|         | Kyulux, Inc.                                       |            |         |            |        |
| 3843956 | Veo Robotics, Inc.                                 | 28/08/2019 | 3843956 | 19855179.8 |        |
| 3847013 | Trespa International B.V.                          | 30/08/2019 | 3847013 | 19795062.9 |        |
| 3847518 | Enersize Oy                                        | 22/08/2019 | 3847518 | 19758714.0 |        |
| 3847627 | Siemens Healthcare Diagnostics, Inc.               | 28/08/2019 | 3847627 | 19857247.1 |        |

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| 3848972 | Shenzhen China Star Optoelectronics Semiconductor Display Technology Co., Ltd.                                       | 01/11/2018 | 3848972 | 18903047.1 |        |
| 3848988 | Murata Manufacturing Co., Ltd.                                                                                       | 09/01/2020 | 3848988 | 20305010.9 |        |
| 3849334 | Hill's Pet Nutrition, Inc.                                                                                           | 18/10/2018 | 3849334 | 18797426.6 |        |
| 3849582 | Anbition S.r.l.                                                                                                      | 11/09/2019 | 3849582 | 19784136.4 |        |
| 3849583 | Anbition S.r.l.                                                                                                      | 11/09/2019 | 3849583 | 19784137.2 |        |
| 3850481 | AVEVA Software, LLC                                                                                                  | 10/09/2019 | 3850481 | 19861192.3 |        |
| 3851099 | Cellionbiomed Inc.                                                                                                   | 11/09/2019 | 3851099 | 19860298.9 |        |
| 3852647 | Cestero, Ramon Francisco Long, Justin Alexander Long, Clarence Lamar Long, Jeffrey Adam                              | 17/09/2019 | 3852647 | 19861565.0 |        |
| 3853411 | Voith Patent GmbH                                                                                                    | 11/07/2019 | 3853411 | 19739579.1 | German |
| 3853721 | Microsoft Technology Licensing, LLC                                                                                  | 25/06/2019 | 3853721 | 19745356.6 |        |
| 3853897 | Tesla, Inc.                                                                                                          | 19/09/2019 | 3853897 | 19780116.0 |        |
| 3854152 | Huawei Technologies Co., Ltd.                                                                                        | 31/10/2018 | 3854152 | 18796039.8 |        |
| 3855081 | Qingdao Hisense Hitachi Air-Conditioning Systems Co. Ltd.                                                            | 18/09/2019 | 3855081 | 19862878.6 |        |
| 3855170 | Cognex Corporation                                                                                                   | 27/01/2021 | 3855170 | 21153758.4 |        |
| 3855421 | Samsung Display Co., Ltd.                                                                                            | 15/01/2021 | 3855421 | 21151835.2 |        |
| 3855535 | LG Energy Solution, Ltd.                                                                                             | 18/10/2019 | 3855535 | 19875433.5 |        |
| 3855852 | VIVO MOBILE COMMUNICATION CO., LTD.                                                                                  | 29/07/2019 | 3855852 | 19863664.9 |        |
| 3855866 | Deutsche Telekom AG                                                                                                  | 24/01/2020 | 3855866 | 20153624.0 | German |
| 3856034 | Hologic, Inc.                                                                                                        | 25/09/2019 | 3856034 | 19787505.7 |        |
| 3857035 | FB Design S.r.l.                                                                                                     | 27/09/2019 | 3857035 | 19787088.4 |        |
| 3857642 | QUALCOMM INCORPORATED                                                                                                | 13/09/2019 | 3857642 | 19779267.4 |        |
| 3857746 | ZTE Corporation                                                                                                      | 28/09/2018 | 3857746 | 18930054.4 |        |
| 3857865 | Zoox, Inc.                                                                                                           | 25/09/2019 | 3857865 | 19790345.3 |        |
| 3858047 | InterDigital Patent Holdings, Inc.                                                                                   | 25/09/2019 | 3858047 | 19786421.8 |        |
| 3859490 | Samsung Electronics Co., Ltd.                                                                                        | 10/06/2019 | 3859490 | 19904247.4 |        |
| 3859919 | Berker GmbH & Co. KG                                                                                                 | 30/01/2020 | 3859919 | 20154476.4 |        |
| 3861060 | STAEDTLER SE                                                                                                         | 02/10/2019 | 3861060 | 19790141.6 | German |
| 3861393 | Corning Research & Development Corporation                                                                           | 03/10/2019 | 3861393 | 19791080.5 |        |
| 3861630 | IFP Energies nouvelles                                                                                               | 17/09/2019 | 3861630 | 19766271.1 | French |
| 3862027 | International Flavors & Fragrances Inc.                                                                              | 07/02/2020 | 3862027 | 20305115.6 |        |
| 3862227 | WAYMO LLC                                                                                                            | 17/11/2017 | 3862227 | 21166316.6 |        |
| 3862440 | Myriad Genetics, Inc.                                                                                                | 17/06/2011 | 3862440 | 21162699.9 |        |
| 3862568 | Mitsubishi Heavy Industries Compressor Corporation                                                                   | 27/01/2021 | 3862568 | 21153784.0 |        |
| 3862646 | Zhejiang Sanhua Intelligent Controls Co., Ltd.                                                                       | 10/08/2020 | 3862646 | 20855848.6 |        |
| 3862792 | HUAWEI TECHNOLOGIES CO., LTD.                                                                                        | 21/08/2012 | 3862792 | 20212151.3 |        |
| 3863259 | Samsung Electronics Co., Ltd.                                                                                        | 24/10/2019 | 3863259 | 19874837.8 |        |
| 3863343 | Huawei Technologies Co., Ltd.                                                                                        | 01/11/2019 | 3863343 | 19878008.2 |        |
| 3863414 | Perfetti Van Melle Benelux B.V.                                                                                      | 03/10/2019 | 3863414 | 19798139.2 |        |
| 3866092 | Block, Inc.                                                                                                          | 07/05/2015 | 3866092 | 21165066.8 |        |
| 3866224 | LG Energy Solution, Ltd.                                                                                             | 01/11/2019 | 3866224 | 19877971.2 |        |
| 3867517 | UFI Filters S.p.A.                                                                                                   | 14/10/2019 | 3867517 | 19794662.7 |        |
| 3868326 | Intuitive Surgical Operations, Inc.                                                                                  | 17/03/2015 | 3868326 | 21166255.6 |        |
| 3868385 | Korea Research Institute of Bioscience and Biotechnology Industry-Academic Cooperation Foundation, Yonsei University | 17/10/2019 | 3868385 | 19873496.4 |        |
| 3868470 | Viridis Chemicals Private Limited Indian Oil Corporation Limited                                                     | 18/02/2021 | 3868470 | 21157936.2 |        |
| 3868559 | Flooring Technologies Ltd.                                                                                           | 20/02/2020 | 3868559 | 20158525.4 | German |
| 3868635 | Koninklijke Gazelle N.V.                                                                                             | 19/02/2021 | 3868635 | 21158225.9 |        |
| 3869034 | Siemens Gamesa Renewable Energy A/S                                                                                  | 19/02/2020 | 3869034 | 20158238.4 |        |
| 3869055 | Hamilton Sundstrand Corporation                                                                                      | 03/02/2021 | 3869055 | 21155013.2 |        |

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|---------|---------------------------------------------------|------------|---------|------------|--------|
| 3869221 | Magna Electronics Sweden AB                       | 20/02/2020 | 3869221 | 20158519.7 |        |
| 3869276 | Patek Philippe SA Genève                          | 19/02/2020 | 3869276 | 20158267.3 | French |
| 3869916 | LG Electronics Inc.                               | 04/01/2019 | 3869916 | 19874045.8 |        |
| 3870937 | EXAIL                                             | 28/10/2019 | 3870937 | 19813631.9 | French |
|         | Institut d'Optique Graduate School                |            |         |            |        |
|         | Centre national de la recherche scientifique      |            |         |            |        |
|         | UNIVERSITE DE BORDEAUX                            |            |         |            |        |
| 3871573 | Gree Electric Appliances, Inc. of Zhuhai          | 06/08/2019 | 3871573 | 19876957.2 |        |
| 3871791 | Alfa Laval Corporate AB                           | 25/02/2020 | 3871791 | 20159170.8 |        |
| 3871968 | Trek Bicycle Corporation                          | 28/01/2021 | 3871968 | 21154018.2 |        |
| 3872917 | LG Energy Solution, Ltd.                          | 16/09/2020 | 3872917 | 20888726.5 |        |
| 3873335 | Saluda Medical Pty Ltd                            | 02/11/2019 | 3873335 | 19880039.3 |        |
| 3873392 | AMO Development, LLC                              | 28/10/2019 | 3873392 | 19880715.8 |        |
| 3873471 | Merck Sharp & Dohme LLC                           | 25/10/2019 | 3873471 | 19879334.1 |        |
| 3873565 | Novo Nordisk A/S                                  | 28/10/2019 | 3873565 | 19790243.0 |        |
| 3874058 | President And Fellows Of Harvard College          | 01/11/2019 | 3874058 | 19899577.1 |        |
| 3874294 | Aurora Operations, Inc.                           | 29/03/2019 | 3874294 | 19722303.5 |        |
| 3874888 | Telefonaktiebolaget LM Ericsson (publ)            | 01/11/2019 | 3874888 | 19798407.3 |        |
| 3875073 | Resonac Corporation                               | 30/10/2019 | 3875073 | 19879410.9 |        |
| 3875080 | Grünenthal GmbH                                   | 02/03/2020 | 3875080 | 20183206.0 |        |
| 3875614 | NIPPON STEEL CORPORATION                          | 01/11/2019 | 3875614 | 19879621.1 |        |
| 3877037 | Checkpoint Surgical, Inc.                         | 08/11/2019 | 3877037 | 19881365.1 |        |
| 3877458 | Carbios                                           | 05/11/2019 | 3877458 | 19795244.3 | French |
| 3877648 | Environmental Resources Management Ltd.           | 09/11/2018 | 3877648 | 18808464.4 |        |
| 3877821 | Ampere SAS                                        | 05/11/2019 | 3877821 | 19804647.6 | French |
| 3878107 | Telefonaktiebolaget LM Ericsson (publ)            | 05/11/2018 | 3878107 | 18939180.8 |        |
| 3878116 | Nokia Technologies Oy                             | 30/10/2019 | 3878116 | 19797653.3 |        |
| 3878197 | Samson Aktiengesellschaft                         | 07/11/2019 | 3878197 | 19801301.3 | German |
| 3878228 | Telefonaktiebolaget LM Ericsson (publ)            | 05/11/2018 | 3878228 | 18803793.1 |        |
| 3878240 | InterDigital Patent Holdings, Inc.                | 08/11/2019 | 3878240 | 19818304.8 |        |
| 3879289 | Hamilton Sundstrand Corporation                   | 10/03/2021 | 3879289 | 21161675.0 |        |
| 3879748 | ABB Schweiz AG                                    | 09/03/2020 | 3879748 | 20161803.0 |        |
| 3880060 | THALES                                            | 06/11/2019 | 3880060 | 19801805.3 | French |
|         | Sispia                                            |            |         |            |        |
| 3880170 | Cinnapharm S.A.S. di Tombolato Alberto Denis e C. | 12/11/2019 | 3880170 | 19809918.6 |        |
| 3880181 | Universiteit Gent                                 | 14/11/2019 | 3880181 | 19801362.5 |        |
| 3880336 | Fanca Technologies Pty Ltd                        | 06/11/2019 | 3880336 | 19884874.9 |        |
| 3880387 | Katholieke Universiteit Leuven                    | 15/11/2019 | 3880387 | 19801387.2 |        |
| 3880398 | TRUMPF Laser- und Systemtechnik SE                | 11/11/2019 | 3880398 | 19808960.9 | German |
| 3880429 | Gneuss GmbH                                       | 18/11/2019 | 3880429 | 19808557.3 | German |
| 3880882 | Myant Inc.                                        | 12/11/2018 | 3880882 | 18939851.4 |        |
| 3881243 | Uveye Ltd.                                        | 11/11/2019 | 3881243 | 19883738.7 |        |
| 3881400 | US Conec, Ltd                                     | 14/11/2019 | 3881400 | 19885051.3 |        |
| 3881436 | Steelrock Technologies Ltd                        | 08/11/2019 | 3881436 | 19804795.3 |        |
| 3882390 | LG Electronics Inc.                               | 15/11/2019 | 3882390 | 19884590.1 |        |
| 3882613 | Technische Universität Dresden                    | 19/03/2020 | 3882613 | 20164217.0 |        |
| 3883084 | GE Vernova Technology GmbH                        | 18/03/2020 | 3883084 | 20275059.2 |        |
| 3884283 | Leica Biosystems Imaging, Inc.                    | 05/08/2020 | 3884283 | 20761005.6 |        |
| 3884380 | Zoox, Inc.                                        | 20/11/2019 | 3884380 | 19818449.1 |        |
| 3884518 | Advanced Micro Devices, Inc.                      | 28/06/2019 | 3884518 | 19887750.8 |        |
| 3884870 | Hologic, Inc.                                     | 26/03/2021 | 3884870 | 21165198.9 |        |
| 3885957 | Pilz GmbH & Co. KG                                | 23/03/2021 | 3885957 | 21164407.5 | German |
| 3886288 | Zhejiang University                               | 07/08/2020 | 3886288 | 20882667.7 |        |
| 3886482 | Nokia Solutions and Networks Oy                   | 23/03/2021 | 3886482 | 21164154.3 |        |
| 3886571 | Germishuys, Dennis Mark                           | 28/11/2019 | 3886571 | 19891410.3 |        |
| 3886680 | Intuitive Surgical Operations, Inc.               | 26/11/2019 | 3886680 | 19824079.8 |        |
| 3887662 | Federal-Mogul Powertrain LLC                      | 26/11/2019 | 3887662 | 19821413.2 |        |
| 3887787 | Grundfos Holding A/S                              | 27/11/2019 | 3887787 | 19816199.4 |        |
| 3887939 | Paccar Inc                                        | 29/11/2019 | 3887939 | 19891074.7 |        |
| 3887967 | Snap-On Incorporated                              | 22/11/2019 | 3887967 | 19820966.0 |        |

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| 3888329 | TELEFONAKTIEBOLAGET LM<br>ERICSSON (PUBL)                                                       | 26/11/2018 | 3888329 | 18826117.6 |        |
| 3888574 | Covidien LP                                                                                     | 30/03/2021 | 3888574 | 21165842.2 |        |
| 3889030 | Yanmar Power Technology Co., Ltd.                                                               | 26/11/2019 | 3889030 | 19889582.3 |        |
| 3889213 | TOYOBO MC Corporation                                                                           | 25/11/2019 | 3889213 | 19889910.6 |        |
| 3889308 | POSCO Co., Ltd                                                                                  | 28/11/2019 | 3889308 | 19889501.3 |        |
| 3889589 | JFE Steel Corporation                                                                           | 08/11/2019 | 3889589 | 19890439.3 |        |
| 3889741 | Krohne Messtechnik GmbH                                                                         | 19/03/2021 | 3889741 | 21163693.1 | German |
| 3889745 | Alps Alpine Co., Ltd.                                                                           | 05/11/2019 | 3889745 | 19890543.2 |        |
| 3889943 | FLIR Systems Trading Belgium BVBA                                                               | 31/03/2021 | 3889943 | 21166305.9 |        |
| 3889984 | Ormazabal Corporate Technology, A.I.E.                                                          | 26/11/2019 | 3889984 | 19842783.3 |        |
| 3890304 | LG Innotek Co., Ltd.                                                                            | 12/11/2019 | 3890304 | 19891552.2 |        |
| 3891384 | Wobben Properties GmbH                                                                          | 05/12/2019 | 3891384 | 19817240.5 | German |
| 3891902 | QUALCOMM Incorporated                                                                           | 12/11/2019 | 3891902 | 19891704.9 |        |
| 3892197 | Dexcom, Inc.                                                                                    | 22/09/2015 | 3892197 | 20213880.6 |        |
| 3892677 | DIC Corporation                                                                                 | 03/12/2019 | 3892677 | 19891907.8 |        |
| 3893006 | Bender GmbH & Co. KG                                                                            | 01/04/2021 | 3893006 | 21166737.3 | German |
| 3893027 | H3D, Inc.                                                                                       | 28/10/2019 | 3893027 | 21177205.8 |        |
| 3893571 | Huawei Technologies Co., Ltd.                                                                   | 21/12/2019 | 3893571 | 19903709.4 |        |
| 3893761 | Multi4 Medical AB                                                                               | 03/12/2019 | 3893761 | 19813814.1 |        |
| 3896007 | Autostore Technology AS                                                                         | 16/06/2015 | 3896007 | 21172165.9 |        |
| 3896152 | AVITA Medical Americas, LLC                                                                     | 14/03/2013 | 3896152 | 21156318.4 |        |
| 3896394 | HERE Global B.V.                                                                                | 26/03/2021 | 3896394 | 21165212.8 |        |
| 3897052 | Beijing Unisoc Communications<br>Technology Co., Ltd.                                           | 11/11/2019 | 3897052 | 19896717.6 |        |
| 3897522 | International Flavors & Fragrances Inc.                                                         | 17/12/2019 | 3897522 | 19899373.5 |        |
| 3899636 | Ricoh Company, Ltd.                                                                             | 01/11/2019 | 3899636 | 19805414.0 |        |
| 3899830 | Carrier Corporation                                                                             | 26/11/2019 | 3899830 | 19827896.2 |        |
| 3901640 | SK On Co., Ltd.                                                                                 | 13/04/2021 | 3901640 | 21167985.7 |        |
| 3901708 | Casio Computer Co., Ltd.                                                                        | 21/04/2021 | 3901708 | 21169551.5 |        |
| 3901994 | Shin-Etsu Chemical Co., Ltd.                                                                    | 18/11/2019 | 3901994 | 19898090.6 |        |
| 3902006 | Seoul Semiconductor Co., Ltd.                                                                   | 31/03/2017 | 3902006 | 21180167.5 |        |
| 3902378 | Tridonic GmbH & Co. KG                                                                          | 23/04/2020 | 3902378 | 20170991.2 |        |
| 3902661 | Agrana Stärke GmbH                                                                              | 27/12/2019 | 3902661 | 19829644.4 | German |
| 3903580 | Shin-Etsu Chemical Co., Ltd.                                                                    | 21/04/2021 | 3903580 | 21169570.5 |        |
| 3904162 | Citic Dicastal Co., Ltd.                                                                        | 10/02/2021 | 3904162 | 21156440.6 |        |
| 3904271 | STERTIL B.V.                                                                                    | 03/05/2021 | 3904271 | 21171894.5 |        |
| 3906020 | SQ Innovation AG                                                                                | 03/01/2020 | 3906020 | 20701688.2 |        |
| 3906323 | SenzaGen AB                                                                                     | 02/01/2020 | 3906323 | 20700233.8 |        |
| 3907447 | LG Electronics Inc.                                                                             | 15/11/2019 | 3907447 | 21161511.7 |        |
| 3908050 | INTEL Corporation                                                                               | 12/03/2021 | 3908050 | 21162414.3 |        |
| 3908541 | Rexnord FlatTop Europe B.V.                                                                     | 10/01/2020 | 3908541 | 20701521.5 |        |
| 3909651 | Iveco S.p.A.                                                                                    | 14/05/2021 | 3909651 | 21173925.5 |        |
| 3910979 | Sony Group Corporation                                                                          | 20/11/2019 | 3910979 | 19909015.0 |        |
| 3912177 | Durham University                                                                               | 14/01/2020 | 3912177 | 20707747.0 |        |
| 3912754 | L'Air Liquide, société anonyme pour l'Étude<br>et l'Exploitation des procédés Georges<br>Claude | 19/04/2021 | 3912754 | 21169064.9 | French |
| 3913471 | Samsung Display Co., Ltd.                                                                       | 20/05/2021 | 3913471 | 21174863.7 |        |
| 3915165 | Shell Internationale Research Maatschappij<br>B.V.                                              | 21/01/2020 | 3915165 | 20700731.1 |        |
| 3915239 | Kymeta Corporation                                                                              | 24/01/2020 | 3915239 | 20745879.5 |        |
| 3915936 | INSTITUTE OF SCIENCE TOKYO                                                                      | 24/01/2020 | 3915936 | 20743953.0 |        |
| 3916322 | LG Electronics Inc.                                                                             | 06/09/2018 | 3916322 | 21181311.8 |        |
| 3917013 | Melexis Technologies NV                                                                         | 21/05/2021 | 3917013 | 21175168.0 |        |
| 3918023 | Pureon Inc.                                                                                     | 30/01/2020 | 3918023 | 20748817.2 |        |
| 3918888 | Milwaukee Electric Tool Corporation                                                             | 30/01/2020 | 3918888 | 20748615.0 |        |
| 3918999 | Biosense Webster (Israel) Ltd.                                                                  | 26/05/2021 | 3918999 | 21175853.7 |        |
| 3919314 | Wipowerone Inc.                                                                                 | 31/01/2020 | 3919314 | 20747648.2 |        |
| 3919676 | Valmet Technologies Oy                                                                          | 02/06/2021 | 3919676 | 21177393.2 |        |
| 3920332 | Comba Telecom Technology (Guangzhou)<br>Limited                                                 | 04/11/2019 | 3920332 | 19913459.4 |        |

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| 3920706 | Dutton, Beverley Andrea                                                          | 05/02/2020 | 3920706 | 20705481.8 | French |
| 3921557 | SOLETANCHE FREYSSINET                                                            | 13/07/2021 | 3921557 | 21740572.9 |        |
| 3922022 | Netflix, Inc.                                                                    | 04/02/2020 | 3922022 | 20709845.0 |        |
| 3922529 | HYUNDAI MOTOR COMPANY                                                            | 22/10/2020 | 3922529 | 20203327.0 |        |
|         | Kia Corporation                                                                  |            |         |            |        |
| 3922612 | Furukawa Electric Co., Ltd.                                                      | 23/01/2020 | 3922612 | 20752007.3 | German |
| 3923873 | Boston Scientific Scimed, Inc.                                                   | 13/02/2020 | 3923873 | 20710704.6 |        |
| 3924198 | BFC Fahrzeugteile GmbH                                                           | 20/11/2020 | 3924198 | 20811275.5 |        |
| 3924355 | Pfizer Inc.                                                                      | 12/02/2020 | 3924355 | 20708183.7 |        |
| 3924437 | Momentive Performance Materials Inc.                                             | 03/02/2020 | 3924437 | 20715500.3 | German |
| 3925341 | ZTE Corporation                                                                  | 15/02/2019 | 3925341 | 19849747.1 |        |
| 3925428 | CLAAS Selbstfahrende Erntemaschinen GmbH                                         | 26/04/2021 | 3925428 | 21170378.0 |        |
| 3925811 | IVECO S.P.A.                                                                     | 18/06/2021 | 3925811 | 21180440.6 |        |
| 3926610 | "DURABLE" HUNKE & JOCHHEIM GMBH & CO. KOMMANDITGESELLSCHAFT                      | 15/06/2021 | 3926610 | 21179604.0 | German |
| 3926622 | Nissan Motor Co., Ltd.                                                           | 12/02/2020 | 3926622 | 20756699.3 |        |
| 3927463 | SBI Bioenergy                                                                    | 12/02/2020 | 3927463 | 20759338.5 |        |
| 3927503 | LG Electronics Inc.                                                              | 03/09/2019 | 3927503 | 19915713.2 |        |
| 3928039 | Illinois Tool Works Inc.                                                         | 17/02/2020 | 3928039 | 20712133.6 |        |
| 3928300 | Google LLC                                                                       | 24/06/2019 | 3928300 | 19736922.6 |        |
| 3928478 | Liveperson, Inc.                                                                 | 19/02/2020 | 3928478 | 20713125.1 |        |
| 3929178 | Hubei Longxiang Pharmaceutical Co., Ltd. Ringpu (Tianjin) Bio-Pharmacy Co., Ltd. | 12/11/2019 | 3929178 | 19935712.0 |        |
| 3929802 | INTEL Corporation                                                                | 12/11/2020 | 3929802 | 20207113.0 |        |
| 3930383 | Huawei Technologies Co., Ltd.                                                    | 30/04/2019 | 3930383 | 19927401.0 |        |
| 3933147 | Siemens Gamesa Renewable Energy A/S                                              | 02/07/2020 | 3933147 | 20183603.8 |        |
| 3934087 | LS Electric Co., Ltd.                                                            | 11/07/2019 | 3934087 | 19916640.6 |        |
| 3935016 | Lummus Technology LLC                                                            | 26/03/2020 | 3935016 | 20720643.4 |        |
| 3935752 | Infinera Corporation                                                             | 14/02/2020 | 3935752 | 20711428.1 |        |
| 3936237 | Nelson Irrigation Corporation                                                    | 10/06/2021 | 3936237 | 21178756.9 |        |
| 3936501 | ABTIS Co., Ltd.                                                                  | 09/03/2020 | 3936501 | 20770235.8 |        |
| 3936575 | Amorepacific Corporation                                                         | 28/06/2021 | 3936575 | 21182017.0 |        |
| 3937241 | Samsung Display Co., Ltd.                                                        | 06/07/2021 | 3937241 | 21184110.1 |        |
| 3937316 | Huawei Technologies Co., Ltd.                                                    | 19/09/2016 | 3937316 | 21180856.3 |        |
| 3937395 | Wilson Electronics, LLC                                                          | 12/07/2021 | 3937395 | 21185043.3 |        |
| 3938727 | Hydro Extruded Solutions AS                                                      | 06/03/2020 | 3938727 | 20714121.9 |        |
| 3938787 | CZ Biohub SF, LLC                                                                | 13/03/2020 | 3938787 | 20773396.5 |        |
|         | THE REGENTS OF THE UNIVERSITY OF CALIFORNIA                                      |            |         |            |        |
|         | Mayo Foundation for Medical Education and Research                               |            |         |            |        |
| 3939090 | Wolfspeed, Inc.                                                                  | 19/02/2020 | 3939090 | 20714038.5 |        |
| 3939365 | Nokia Solutions and Networks Oy                                                  | 15/03/2019 | 3939365 | 19718477.3 |        |
| 3940825 | Sumitomo Metal Mining Co., Ltd.                                                  | 11/03/2021 | 3940825 | 21162093.5 |        |
| 3941036 | Amlogic (Shanghai) Co., Ltd.                                                     | 15/07/2021 | 3941036 | 21185881.6 |        |
| 3941957 | Allnex Netherlands B.V.                                                          | 17/03/2020 | 3941957 | 20710547.9 |        |
| 3942215 | Hefei Gotion High-Tech Power Energy Co., Ltd.                                    | 21/03/2019 | 3942215 | 19920506.3 |        |
| 3942439 | CAPZUL LTD                                                                       | 23/03/2020 | 3942439 | 20774574.6 |        |
| 3942586 | Eaton Intelligent Power Limited                                                  | 16/03/2020 | 3942586 | 20713510.4 |        |
| 3943293 | Nippon Paper Industries Co., Ltd. Jujo Thermal Oy                                | 17/03/2020 | 3943293 | 20773798.2 |        |
| 3943959 | Eaton Intelligent Power Limited                                                  | 09/07/2021 | 3943959 | 21184887.4 | French |
| 3944026 | ROLEX SA                                                                         | 21/07/2020 | 3944026 | 20186888.2 |        |
| 3945454 | Bull SAS                                                                         | 31/07/2020 | 3945454 | 20305888.8 |        |
| 3945469 | Siemens Healthineers AG                                                          | 28/07/2020 | 3945469 | 20188174.5 |        |
| 3946127 | Fusmobile, Inc.                                                                  | 25/03/2020 | 3946127 | 20776477.0 |        |
| 3946352 | Prelude Therapeutics Incorporated                                                | 03/04/2020 | 3946352 | 20785172.6 |        |
| 3946516 | SANOFI                                                                           | 26/03/2020 | 3946516 | 20713294.5 |        |
| 3946841 | LG Electronics Inc.                                                              | 26/03/2020 | 3946841 | 20776680.9 |        |

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| 3947008 | VOLKSWAGEN<br>AKTIENGESELLSCHAFT                                     | 11/03/2020 | 3947008 | 20713200.2 | German |
| 3947095 | INTEL Corporation                                                    | 27/03/2020 | 3947095 | 20785355.7 |        |
| 3947218 | REEL Alesa AG                                                        | 26/03/2020 | 3947218 | 20714212.6 |        |
| 3947256 | Bausch + Ströbel SE + Co. KG                                         | 16/03/2020 | 3947256 | 20712282.1 | German |
| 3947559 | Trinseo Europe GmbH                                                  | 24/03/2020 | 3947559 | 20777395.3 |        |
| 3948321 | Albert-Ludwigs-Universität Freiburg                                  | 02/04/2020 | 3948321 | 20719582.7 | German |
| 3948911 | Siemens Energy Global GmbH & Co. KG                                  | 28/02/2020 | 3948911 | 20710808.5 | German |
| 3948948 | Lumileds LLC                                                         | 27/03/2020 | 3948948 | 20721913.0 |        |
| 3950177 | Proterial, Ltd.                                                      | 04/09/2020 | 3950177 | 20860040.3 |        |
| 3950499 | Softbank Corp.                                                       | 28/01/2020 | 3950499 | 20779909.9 |        |
| 3951201 | NTN Corporation                                                      | 16/03/2020 | 3951201 | 20784067.9 |        |
| 3951436 | Mettler-Toledo, LLC                                                  | 04/08/2020 | 3951436 | 20189361.7 |        |
| 3952031 | Teledyne Instruments, Inc.                                           | 11/09/2020 | 3952031 | 21198683.1 |        |
| 3952124 | ZTE Corporation                                                      | 23/03/2020 | 3952124 | 20785391.2 |        |
| 3952500 | Nokia Technologies Oy                                                | 28/07/2021 | 3952500 | 21188101.6 |        |
| 3952527 | ZTE Corporation                                                      | 26/02/2020 | 3952527 | 20783368.2 |        |
| 3952775 | Brainlab SE                                                          | 09/04/2020 | 3952775 | 20716825.3 |        |
| 3953179 | Lsinc Corporation                                                    | 20/02/2020 | 3953179 | 20787529.5 |        |
| 3953425 | Avery Dennison Corporation                                           | 08/04/2020 | 3953425 | 20722173.0 |        |
| 3953558 | Weatherford Technology Holdings, LLC                                 | 07/04/2020 | 3953558 | 20722839.6 |        |
| 3953839 | Jiveworld, Spc                                                       | 09/04/2020 | 3953839 | 20787196.3 |        |
| 3953998 | KOSTAL Kontakt Systeme GmbH & Co. KG                                 | 03/04/2020 | 3953998 | 20717168.7 | German |
| 3955508 | Deutsche Telekom AG                                                  | 14/08/2020 | 3955508 | 20191212.8 | German |
| 3957232 | University Health Network                                            | 24/07/2015 | 3957232 | 21187101.7 |        |
| 3958065 | Samsung Electronics Co., Ltd.                                        | 05/08/2021 | 3958065 | 21189903.4 |        |
| 3958433 | E.G.O. Elektro-Gerätebau GmbH                                        | 23/07/2021 | 3958433 | 21187411.0 | German |
| 3958502 | nChain Licensing AG                                                  | 19/01/2018 | 3958502 | 21203239.5 |        |
| 3958685 | Société des Produits Nestlé S.A.                                     | 11/06/2020 | 3958685 | 20732572.1 |        |
| 3958802 | Coloplast A/S                                                        | 27/04/2020 | 3958802 | 20727144.6 |        |
| 3959119 | ArcelorMittal                                                        | 02/04/2020 | 3959119 | 20716951.7 |        |
| 3959508 | Lambda-X Ophthalmics                                                 | 24/04/2020 | 3959508 | 20720073.4 | French |
| 3959825 | Virewirx, Inc.                                                       | 22/04/2020 | 3959825 | 20794891.0 |        |
| 3959837 | Samsung Electronics Co., Ltd.                                        | 24/04/2020 | 3959837 | 20794363.0 |        |
| 3960060 | LG Electronics Inc.                                                  | 12/05/2020 | 3960060 | 20818240.2 |        |
| 3960629 | The Boeing Company                                                   | 16/08/2021 | 3960629 | 21191527.7 |        |
| 3961966 | Datang Mobile Communications Equipment Co., Ltd.                     | 28/06/2018 | 3961966 | 21202637.1 |        |
| 3962837 | Autostore Technology AS                                              | 06/03/2020 | 3962837 | 20710868.9 |        |
| 3963212 | ELICA S.p.A.                                                         | 24/03/2020 | 3963212 | 20720504.8 |        |
| 3965158 | Samsung Electronics Co., Ltd.                                        | 04/08/2021 | 3965158 | 21189715.2 |        |
| 3965190 | Ningde Ampere Technology Limited                                     | 27/04/2020 | 3965190 | 20933237.8 |        |
| 3965442 | VOLKSWAGEN AG                                                        | 08/09/2020 | 3965442 | 20195049.0 |        |
| 3965744 | Ferrer Internacional, S.A.                                           | 06/11/2019 | 3965744 | 19805905.7 |        |
| 3965773 | Fermenta Biotech Limited                                             | 08/05/2020 | 3965773 | 20802732.6 |        |
| 3966087 | AUTOTECH ENGINEERING S.L.                                            | 18/02/2020 | 3966087 | 20706216.7 |        |
| 3966451 | Volvo Construction Equipment AB                                      | 10/05/2019 | 3966451 | 19733126.7 |        |
| 3966777 | SmartFrame Technologies Limited                                      | 07/05/2020 | 3966777 | 20726917.6 |        |
| 3967244 | Levita Magnetics International Corp.                                 | 13/04/2016 | 3967244 | 21189505.7 |        |
| 3968595 | ZTE Corporation                                                      | 07/04/2020 | 3968595 | 20832962.3 |        |
| 3968771 | Beeflow Corporation                                                  | 14/05/2020 | 3968771 | 20805144.1 |        |
|         | Consejo Nacional de Investigaciones Científicas Y Técnicas (CONICET) |            |         |            |        |
| 3969361 | Airbus Operations GmbH                                               | 10/07/2020 | 3969361 | 20743599.1 |        |
| 3970597 | Ambu A/S                                                             | 22/09/2020 | 3970597 | 20197466.4 |        |
| 3971027 | Safran Seats                                                         | 05/04/2012 | 3971027 | 21204479.6 |        |
| 3971202 | SEKISUI CHEMICAL CO., LTD.                                           | 15/05/2020 | 3971202 | 20805342.1 |        |
| 3972896 | Joby Aero, Inc.                                                      | 21/05/2020 | 3972896 | 20808666.0 |        |
| 3972916 | ZÖLLER-KIPPER GMBH                                                   | 22/05/2020 | 3972916 | 20728453.0 | German |
| 3973033 | Shoei Chemical Inc.                                                  | 18/06/2020 | 3973033 | 20743392.1 |        |

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| 3973971 | INSTITUT ALLERGOSAN Holding GmbH                                                | 26/11/2020 | 3973971 | 20209988.3 | German |
| 3975596 | ZTE Corporation                                                                 | 12/08/2020 | 3975596 | 20852821.6 |        |
| 3976887 | Access Technical Centre Pty Ltd                                                 | 27/05/2020 | 3976887 | 20812525.2 |        |
|         | Access Covers Australia Pty Ltd                                                 |            |         |            |        |
| 3976960 | VESTAS WIND SYSTEMS A/S                                                         | 26/05/2020 | 3976960 | 20729623.7 |        |
| 3977091 | Cytognos, S.L.                                                                  | 29/05/2020 | 3977091 | 20728073.6 |        |
| 3977338 | KONE Corporation                                                                | 24/05/2019 | 3977338 | 19727709.8 |        |
| 3977413 | Advanced Micro Devices, Inc.                                                    | 29/05/2020 | 3977413 | 20815640.6 |        |
| 3977681 | Siemens Mobility GmbH                                                           | 22/07/2020 | 3977681 | 20754631.8 | German |
| 3978412 | KONE Corporation                                                                | 02/10/2020 | 3978412 | 20199821.8 |        |
| 3978492 | Medshine Discovery Inc.                                                         | 29/05/2020 | 3978492 | 20814764.5 |        |
| 3978680 | Seiko Epson Corporation                                                         | 28/09/2021 | 3978680 | 21199308.4 |        |
| 3979049 | Apple Inc.                                                                      | 22/09/2017 | 3979049 | 21210782.5 |        |
| 3979080 | Mastercard International Incorporated                                           | 02/09/2021 | 3979080 | 21194594.4 |        |
| 3979785 | Valmont Industries, Inc.                                                        | 08/06/2020 | 3979785 | 20818180.0 |        |
| 3979892 | Magentiq Eye Ltd.                                                               | 06/05/2020 | 3979892 | 20817832.7 |        |
| 3980633 | SAFRAN AIRCRAFT ENGINES                                                         | 29/05/2020 | 3980633 | 20737526.2 | French |
| 3980644 | Siemens Gamesa Renewable Energy A/S                                             | 27/07/2020 | 3980644 | 20754649.0 |        |
| 3981379 | Almora Botanica UK Ltd                                                          | 06/10/2021 | 3981379 | 21201252.0 |        |
| 3981514 | Frontier Laboratories Ltd.                                                      | 19/03/2021 | 3981514 | 21827564.2 |        |
| 3981767 | Bristol-Myers Squibb Company                                                    | 04/03/2019 | 3981767 | 21207176.5 |        |
| 3981822 | mitsubishi gas chemical company, inc.                                           | 01/06/2020 | 3981822 | 20823596.0 |        |
| 3983048 | IPH001 Pty Ltd                                                                  | 12/06/2020 | 3983048 | 20823609.1 |        |
| 3984187 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)                                          | 05/11/2019 | 3984187 | 19798300.0 |        |
| 3984288 | VusionGroup GmbH                                                                | 17/06/2019 | 3984288 | 19734299.1 | German |
| 3985551 | Bayerische Motoren Werke Aktiengesellschaft                                     | 14/10/2020 | 3985551 | 20201676.2 |        |
| 3985807 | TE Connectivity Industrial GmbH                                                 | 15/10/2020 | 3985807 | 20202065.7 |        |
| 3985988 | Shenzhen Skyworth-Rgb Electronic Co., Ltd                                       | 24/06/2020 | 3985988 | 20797646.5 |        |
| 3986071 | Acer Incorporated                                                               | 05/10/2021 | 3986071 | 21200968.2 |        |
| 3986113 | ContiTech Transportbandsysteme GmbH Pöttinger Landtechnik GmbH                  | 15/06/2020 | 3986113 | 20733396.4 | German |
| 3986171 | JT International SA                                                             | 19/06/2020 | 3986171 | 20733433.5 |        |
| 3987379 | INTEL Corporation                                                               | 18/05/2020 | 3987379 | 20825702.2 |        |
| 3987688 | Oledcomm                                                                        | 16/06/2020 | 3987688 | 20731894.0 | French |
| 3989092 | Nutanix, Inc.                                                                   | 26/10/2021 | 3989092 | 21204885.4 |        |
| 3989891 | Cryotech Nordic OÜ                                                              | 24/06/2020 | 3989891 | 20736267.4 |        |
| 3990215 | Schaeffler Technologies AG & Co. KG                                             | 19/06/2020 | 3990215 | 20743958.9 | German |
| 3991108 | Microsoft Technology Licensing, LLC                                             | 24/06/2020 | 3991108 | 20743906.8 |        |
| 3991565 | Fuji Oil Co., Ltd.                                                              | 22/06/2020 | 3991565 | 20833593.5 |        |
| 3991977 | Canon Production Printing Holding B.V.                                          | 29/10/2020 | 3991977 | 20204779.1 |        |
| 3992015 | Westenergie AG                                                                  | 02/11/2021 | 3992015 | 21206055.2 | German |
| 3992021 | Westenergie AG                                                                  | 02/11/2021 | 3992021 | 21206075.0 | German |
| 3992222 | Bakelite GmbH                                                                   | 30/10/2020 | 3992222 | 20205059.7 |        |
| 3992740 | SUMITOMO HEAVY INDUSTRIES, LTD.                                                 | 29/05/2020 | 3992740 | 20833158.7 |        |
| 3992928 | JVCKenwood Corporation                                                          | 22/04/2020 | 3992928 | 20833465.6 |        |
| 3993038 | BOE Technology Group Co., Ltd. Chengdu BOE Optoelectronics Technology Co., Ltd. | 27/11/2020 | 3993038 | 20824416.0 |        |
| 3993453 | HERE Global B.V.                                                                | 02/11/2021 | 3993453 | 21206016.4 |        |
| 3993720 | Cianna Medical, Inc.                                                            | 04/09/2019 | 3993720 | 19858018.5 |        |
| 3993768 | Beiersdorf AG                                                                   | 02/06/2020 | 3993768 | 20730241.5 | German |
| 3993929 | Meccanotecnica S.r.l.                                                           | 30/06/2020 | 3993929 | 20743372.3 |        |
| 3994220 | Bostik SA                                                                       | 02/07/2020 | 3994220 | 20735590.0 |        |
| 3994446 | University of Cincinnati                                                        | 06/07/2020 | 3994446 | 20834933.2 |        |
| 3995052 | RH US, LLC                                                                      | 05/11/2021 | 3995052 | 21206781.3 |        |
| 3995920 | ABB Schweiz AG                                                                  | 10/11/2020 | 3995920 | 20206648.6 |        |



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| 3995940 | RAFI GmbH & Co. KG                                             | 10/11/2020 | 3995940 | 20206575.1 | German |
| 3996085 | Spotify AB                                                     | 04/11/2020 | 3996085 | 20205651.1 |        |
| 3996470 | Whirlpool Corporation                                          | 03/11/2021 | 3996470 | 21206257.4 |        |
| 3997078 | National University of Singapore                               | 08/07/2020 | 3997078 | 20742970.5 |        |
| 3998647 | MEDIATEK INC.                                                  | 13/06/2018 | 3998647 | 22150489.7 |        |
| 3998939 | Cathworks Ltd.                                                 | 17/07/2020 | 3998939 | 20843503.2 |        |
| 3999161 | ECOLE POLYTECHNIQUE FEDERALE<br>DE LAUSANNE (EPFL)             | 07/07/2020 | 3999161 | 20758342.8 |        |
| 3999197 | TYG S.r.l.                                                     | 20/07/2020 | 3999197 | 20743049.7 |        |
| 3999687 | Warner, Arden A.                                               | 16/07/2020 | 3999687 | 20841628.9 |        |
| 4000010 | Robert Bosch GmbH                                              | 24/06/2020 | 4000010 | 20734900.2 |        |
| 4000759 | The Boeing Company                                             | 10/11/2021 | 4000759 | 21207360.5 | German |
| 4000900 | The Boeing Company                                             | 10/11/2021 | 4000900 | 21207372.0 |        |
| 4000916 | Unilin, BV                                                     | 13/11/2020 | 4000916 | 20207553.7 |        |
| 4001152 | Easytech Packaging S.p.A.                                      | 10/11/2021 | 4001152 | 21207458.7 |        |
| 4001340 | FUJIFILM Corporation                                           | 09/07/2020 | 4001340 | 20840734.6 |        |
| 4001579 | Huga KG                                                        | 10/11/2021 | 4001579 | 21207629.3 |        |
| 4001747 | Seoul Semiconductor Co., Ltd.                                  | 30/11/2012 | 4001747 | 22151059.7 | German |
| 4001843 | HERE Global B.V.                                               | 18/11/2021 | 4001843 | 21209051.8 |        |
| 4001896 | Sartorius Stedim Biotech GmbH                                  | 24/11/2020 | 4001896 | 20209610.3 | German |
| 4001954 | Imec VZW                                                       | 17/11/2020 | 4001954 | 20208013.1 |        |
| 4002098 | Deutsche Telekom AG                                            | 18/11/2020 | 4002098 | 20208377.0 | German |
| 4002301 | Motherson Innovations Company Limited                          | 09/11/2021 | 4002301 | 21207207.8 |        |
| 4003286 | Henkel AG & Co. KGaA                                           | 08/06/2020 | 4003286 | 20731454.3 | German |
| 4003358 | Health Research, Inc.                                          | 27/07/2020 | 4003358 | 20848245.5 |        |
| 4003603 | BASF SE                                                        | 24/07/2020 | 4003603 | 20742767.5 |        |
| 4003664 | Google LLC                                                     | 27/08/2019 | 4003664 | 19765914.7 |        |
| 4004022 | The Trustees of Indiana University                             | 29/07/2020 | 4004022 | 20757116.7 |        |
| 4004267 | BSH Hausgeräte GmbH                                            | 16/07/2020 | 4004267 | 20743998.5 |        |
| 4005683 | ABB Schweiz AG                                                 | 23/07/2019 | 4005683 | 19938307.6 | German |
| 4005896 | Waymo LLC                                                      | 23/05/2016 | 4005896 | 22150552.2 |        |
| 4006060 | Borealis GmbH                                                  | 25/11/2020 | 4006060 | 20209881.0 |        |
| 4006113 | NOK Corporation                                                | 30/06/2020 | 4006113 | 20842952.2 |        |
| 4006404 | YLX Incorporated                                               | 28/08/2020 | 4006404 | 20858167.8 |        |
| 4006406 | Sanube GmbH                                                    | 23/11/2021 | 4006406 | 21209922.0 |        |
| 4006547 | ARKRAY, Inc.                                                   | 26/11/2021 | 4006547 | 21210873.2 |        |
| 4006614 | Leica Microsystems CMS GmbH                                    | 27/11/2020 | 4006614 | 20210438.6 |        |
| 4006761 | Brother Kogyo Kabushiki Kaisha                                 | 01/11/2021 | 4006761 | 21205750.9 |        |
| 4007451 | LG Electronics Inc.                                            | 16/11/2021 | 4007451 | 21208374.5 |        |
| 4007622 | Medtrum Technologies Inc.                                      | 14/05/2020 | 4007622 | 20846735.7 |        |
| 4007932 | Bard Access Systems, Inc.                                      | 07/08/2020 | 4007932 | 20849119.1 |        |
| 4008086 | Zengo Ltd.                                                     | 02/08/2020 | 4008086 | 20850898.6 |        |
| 4009177 | INTEL Corporation                                              | 22/09/2021 | 4009177 | 21198353.1 |        |
| 4010178 | Airbus Defence and Space GmbH<br>Airbus Operations GmbH        | 06/08/2020 | 4010178 | 20758093.7 | German |
| 4010576 | Safran Nacelles                                                | 31/07/2020 | 4010576 | 20820245.7 |        |
| 4010626 | Lumileds Holding B.V.                                          | 05/08/2020 | 4010626 | 20751537.0 | French |
| 4010650 | Miba Cooling Austria GmbH & Co. KG                             | 06/08/2020 | 4010650 | 20771418.9 |        |
| 4010778 | Legrand AV Inc.                                                | 31/08/2020 | 4010778 | 20860224.3 | German |
| 4010844 | Maxar Intelligence Inc.                                        | 13/11/2020 | 4010844 | 20820709.2 |        |
| 4011211 | Tetra Laval Holdings & Finance S.A.                            | 25/11/2021 | 4011211 | 21210492.1 |        |
| 4011768 | NPO International Rescue System Institute<br>Tohoku University | 31/07/2020 | 4011768 | 20853296.0 |        |
| 4011844 | NIKON CORPORATION                                              | 06/08/2019 | 4011844 | 19940611.7 |        |
| 4012176 | Liebherr-Mischtechnik GmbH                                     | 18/10/2021 | 4012176 | 21203291.6 |        |
| 4012706 | Tencent Technology (Shenzhen) Company<br>Limited               | 04/11/2020 | 4012706 | 20918512.3 | German |
| 4012737 | ABB SCHWEIZ AG                                                 | 17/11/2021 | 4012737 | 21208657.3 |        |
| 4012769 | LG Electronics Inc.                                            | 07/08/2019 | 4012769 | 19940436.9 |        |
| 4012847 | TE Connectivity Germany GmbH                                   | 09/12/2021 | 4012847 | 21213452.2 |        |
| 4013292 | Chronolife SAS                                                 | 29/07/2020 | 4013292 | 20745215.2 |        |
| 4013398 | Melody Healthcare Pvt. Ltd.                                    | 05/08/2020 | 4013398 | 20853716.7 |        |

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| 4013654 | Zoxx, Inc.                                                                          | 12/08/2020 | 4013654 | 20853262.2 |        |
| 4014001 | Linde GmbH                                                                          | 10/07/2020 | 4014001 | 20743072.9 | German |
| 4014124 | Siemens Gamesa Renewable Energy A/S                                                 | 22/09/2020 | 4014124 | 20789458.5 |        |
| 4014391 | QUALCOMM INCORPORATED                                                               | 14/08/2020 | 4014391 | 20762003.0 |        |
| 4014422 | Liebherr-Electronics and Drives GmbH                                                | 19/08/2020 | 4014422 | 20758189.3 | German |
| 4014630 | QUALCOMM INCORPORATED                                                               | 14/08/2020 | 4014630 | 20854001.3 |        |
| 4014847 | Biosense Webster (Israel) Ltd                                                       | 15/12/2021 | 4014847 | 21214612.0 |        |
| 4014917 | Shanghai Microport Medbot (Group) Co., Ltd.                                         | 13/08/2020 | 4014917 | 20852545.1 |        |
| 4015193 | LG ENERGY SOLUTION, LTD.                                                            | 16/10/2020 | 4015193 | 20878181.5 |        |
| 4015796 | The Boeing Company                                                                  | 18/11/2021 | 4015796 | 21208921.3 |        |
| 4016133 | Honeywell International Inc.                                                        | 11/11/2021 | 4016133 | 21207796.0 |        |
| 4016417 | Dassault Aviation                                                                   | 14/12/2021 | 4016417 | 21214542.9 | French |
| 4016467 | Tencent Technology (Shenzhen) Company Limited                                       | 09/11/2020 | 4016467 | 20923172.9 |        |
| 4016484 | CAME S.p.A.                                                                         | 17/12/2020 | 4016484 | 20215080.1 |        |
| 4016602 | INTEL Corporation                                                                   | 23/09/2021 | 4016602 | 21198414.1 |        |
| 4017135 | Huawei Technologies Co., Ltd.                                                       | 18/05/2020 | 4017135 | 20855459.2 |        |
| 4017260 | Karmoy Winch AS                                                                     | 21/08/2020 | 4017260 | 20857963.1 |        |
| 4017310 | NIKE Innovate C.V.                                                                  | 21/08/2020 | 4017310 | 20771378.5 |        |
| 4018131 | Samsung Electronics Co., Ltd.                                                       | 17/11/2020 | 4018131 | 20888986.5 |        |
| 4018181 | Cape Breton University                                                              | 21/08/2020 | 4018181 | 20854885.9 |        |
| 4018573 | Cisco Technology, Inc.                                                              | 20/08/2020 | 4018573 | 20764548.2 |        |
| 4018605 | Microsoft Technology Licensing, LLC                                                 | 10/09/2020 | 4018605 | 20775785.7 |        |
| 4018720 | QUALCOMM INCORPORATED                                                               | 18/08/2020 | 4018720 | 20764874.2 |        |
| 4018782 | Samsung Electronics Co., Ltd.                                                       | 24/11/2020 | 4018782 | 20893003.2 |        |
| 4019066 | SCHOTT Pharma Schweiz AG                                                            | 29/04/2022 | 4019066 | 22170978.5 |        |
| 4019094 | LG ENERGY SOLUTION, LTD.                                                            | 20/08/2020 | 4019094 | 20884751.7 |        |
| 4019228 | Tetra Laval Holdings & Finance S.A.                                                 | 29/11/2021 | 4019228 | 21211014.2 |        |
| 4019738 | Westenergie AG                                                                      | 22/11/2021 | 4019738 | 21209619.2 | German |
| 4020005 | Suteng Innovation Technology Co., Ltd.                                              | 23/08/2019 | 4020005 | 19943711.2 |        |
| 4020527 | INTEL Corporation                                                                   | 17/09/2021 | 4020527 | 21197426.6 |        |
| 4021052 | Intel Corporation                                                                   | 18/11/2021 | 4021052 | 21209076.5 |        |
| 4022087 | Revosketch Inc.                                                                     | 29/08/2019 | 4022087 | 19943483.8 |        |
| 4022168 | Patentpool Innovations Management GmbH                                              | 28/08/2020 | 4022168 | 20761267.2 |        |
| 4022318 | Universiteit Antwerpen                                                              | 31/08/2020 | 4022318 | 20768286.5 |        |
| 4022851 | Viasat, Inc.                                                                        | 01/11/2019 | 4022851 | 19809963.2 |        |
| 4022866 | Google LLC                                                                          | 30/10/2020 | 4022866 | 20811881.0 |        |
| 4023074 | Mizkan Holdings Co., Ltd.                                                           | 30/08/2019 | 4023074 | 19942768.3 |        |
|         | Mizkan Euro Ltd.                                                                    |            |         |            |        |
| 4023176 | The Provost, Fellows, Scholars and other Members of Board of Trinity College Dublin | 15/09/2021 | 4023176 | 21196949.8 |        |
| 4023404 | IMA Schelling Deutschland GmbH                                                      | 17/11/2021 | 4023404 | 21208709.2 | German |
| 4023441 | KONICA MINOLTA, INC.                                                                | 05/11/2020 | 4023441 | 20885754.0 |        |
| 4024088 | Honeywell International Inc.                                                        | 18/11/2021 | 4024088 | 21209068.2 |        |
| 4024781 | Huawei Technologies Co., Ltd.                                                       | 03/09/2020 | 4024781 | 20860682.2 |        |
| 4025661 | CMC Materials LLC                                                                   | 02/09/2020 | 4025661 | 20861376.0 |        |
| 4025816 | ContiTech Schlauch GmbH                                                             | 21/08/2020 | 4025816 | 20760846.4 | German |
| 4026033 | Autoloto, Inc.                                                                      | 08/05/2020 | 4026033 | 20859657.7 |        |
| 4026610 | Zeppelin Systems GmbH                                                               | 12/11/2021 | 4026610 | 21208041.0 | German |
| 4026995 | Volvo Penta Corporation                                                             | 11/01/2021 | 4026995 | 21150970.8 |        |
| 4027537 | Panduit Corp.                                                                       | 07/01/2022 | 4027537 | 22150550.6 |        |
| 4027931 | Fiagon GmbH                                                                         | 14/09/2020 | 4027931 | 20774916.9 |        |
| 4028054 | F.Hoffmann-La Roche AG                                                              | 10/09/2020 | 4028054 | 20780466.7 |        |
| 4028142 | Evoqua Water Technologies LLC                                                       | 14/09/2021 | 4028142 | 21867828.2 |        |
| 4028228 | Nanotronics Imaging, Inc.                                                           | 09/09/2020 | 4028228 | 20864085.4 |        |
| 4028686 | Engineered Controls International, LLC                                              | 09/09/2020 | 4028686 | 20776014.1 |        |
| 4029478 | L&K Biomed Co., Ltd.                                                                | 12/11/2019 | 4029478 | 19945039.6 |        |
| 4029612 | The University of Osaka                                                             | 04/09/2020 | 4029612 | 20863391.7 |        |
|         | NTN Corporation                                                                     |            |         |            |        |
| 4029906 | Despriet Gebroeders NV                                                              | 26/11/2021 | 4029906 | 21210822.9 |        |

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| 4030062 | Hunter Fan Company                                                 | 14/12/2016 | 4030062 | 22161206.2 |        |
| 4030163 | ATLAS Material Testing Technology GmbH                             | 19/01/2021 | 4030163 | 21152379.0 |        |
| 4030727 | Nokia Solutions and Networks Oy                                    | 12/01/2022 | 4030727 | 22151181.9 |        |
| 4031434 | Siemens Mobility GmbH                                              | 11/11/2020 | 4031434 | 20816102.6 | German |
| 4031602 | Bostik SA                                                          | 17/09/2020 | 4031602 | 20820256.4 | French |
| 4031631 | BASF SE                                                            | 16/09/2020 | 4031631 | 20781690.1 |        |
| 4031818 | Robert Bosch GmbH                                                  | 10/09/2020 | 4031818 | 20772017.8 | German |
| 4031881 | Beckman Coulter, Inc.                                              | 17/09/2020 | 4031881 | 20781705.7 |        |
| 4031955 | Microsoft Technology Licensing, LLC                                | 18/06/2020 | 4031955 | 20736881.2 |        |
| 4032369 | DBK David + Baader GmbH                                            | 15/09/2020 | 4032369 | 20772285.1 | German |
| 4033155 | BSH Hausgeräte GmbH                                                | 24/01/2022 | 4033155 | 22153011.6 | German |
| 4033245 | The Boeing Company                                                 | 16/11/2021 | 4033245 | 21208419.8 |        |
| 4033614 | TE Connectivity Japan G.K.                                         | 17/01/2022 | 4033614 | 22151893.9 |        |
| 4033770 | Amazon Technologies, Inc.                                          | 14/11/2016 | 4033770 | 22161709.5 |        |
| 4033829 | NTT DOCOMO, INC.                                                   | 17/09/2019 | 4033829 | 19945918.1 |        |
| 4034096 | Philipps-Universität Marburg                                       | 25/09/2020 | 4034096 | 20789479.1 |        |
| 4034288 | Julius-Maximilians-Universität Würzburg                            |            |         |            |        |
|         | Shell Internationale Research Maatschappij B.V.                    | 23/09/2020 | 4034288 | 20772336.2 |        |
| 4034597 | Dow Global Technologies LLC                                        | 21/09/2020 | 4034597 | 20786376.2 |        |
| 4035122 | Nuvasive, Inc.                                                     | 24/09/2020 | 4035122 | 20797896.6 |        |
| 4035125 | Nuvasive, Inc.                                                     | 24/09/2020 | 4035125 | 20788944.5 |        |
| 4035170 | Kenvue Brands LLC                                                  | 24/09/2020 | 4035170 | 20786331.7 |        |
| 4035495 | Nokia Technologies Oy                                              | 27/09/2019 | 4035495 | 19946684.8 |        |
| 4035607 | Covidien LP                                                        | 27/01/2022 | 4035607 | 22153619.6 |        |
| 4035710 | Shenzhen Mindray Scientific Co., Ltd.                              | 25/09/2019 | 4035710 | 19947116.0 |        |
| 4035985 | Mitsubishi Heavy Industries Marine Machinery & Equipment Co., Ltd. | 26/11/2020 | 4035985 | 20893934.8 |        |
| 4036013 | Hamilton Sundstrand Corporation                                    | 31/01/2022 | 4036013 | 22154355.6 |        |
| 4036432 | Sensata Technologies, Inc.                                         | 28/01/2022 | 4036432 | 22154090.9 |        |
| 4036448 | Hauff-Technik GmbH & Co. KG                                        | 27/01/2022 | 4036448 | 22153640.2 | German |
| 4036568 | Tata Consultancy Services Limited                                  | 18/11/2021 | 4036568 | 21208896.7 |        |
| 4036927 | Smilecloud S.r.l.                                                  | 12/08/2021 | 4036927 | 21191060.9 |        |
| 4038428 | FormFactor, Inc.                                                   | 30/06/2020 | 4038428 | 20870456.9 |        |
| 4038742 | WS Audiology A/S                                                   | 28/09/2020 | 4038742 | 20781497.1 |        |
| 4040407 | Connexa Instech S.r.l.                                             | 09/02/2022 | 4040407 | 22155838.0 |        |
| 4040474 | The Board of Trustees of the University of Illinois                | 01/06/2006 | 4040474 | 22164385.1 |        |
| 4041492 | VESTAS WIND SYSTEMS A/S                                            | 05/10/2020 | 4041492 | 20789831.3 |        |
| 4041538 | Neuvokas Corporation                                               | 12/11/2020 | 4041538 | 20821482.5 |        |
| 4042092 | Eotech, LLC                                                        | 16/11/2020 | 4042092 | 20920740.6 |        |
| 4042526 | Zumtobel Lighting GmbH                                             | 01/10/2020 | 4042526 | 20785963.8 | German |
| 4042733 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)                             | 05/10/2020 | 4042733 | 20789034.4 |        |
| 4042977 | Edwards Lifesciences Corporation                                   | 08/06/2009 | 4042977 | 22164669.8 |        |
| 4043542 | Liquid Mine, Inc.                                                  | 02/10/2020 | 4043542 | 20873974.8 |        |
| 4043790 | The University of Tokyo                                            |            |         |            |        |
|         | Wanhua Chemical Group Co., Ltd.                                    | 26/08/2020 | 4043790 | 20873681.9 |        |
|         | Wanhua Chemical (Ningbo) Co., Ltd.                                 |            |         |            |        |
| 4044119 | Rockwell Collins, Inc.                                             | 16/02/2022 | 4044119 | 22157007.0 |        |
| 4044135 | Lee, Ki Chul                                                       | 05/10/2020 | 4044135 | 20874281.7 |        |
| 4044182 | Ceramic Data Solutions GmbH                                        | 12/02/2021 | 4044182 | 21156858.9 |        |
| 4044489 | ZTE Corporation                                                    | 29/09/2020 | 4044489 | 20874427.6 |        |
| 4044695 | ZTE Corporation                                                    | 09/10/2020 | 4044695 | 20874639.6 |        |
| 4044750 | Huawei Technologies Co., Ltd.                                      | 30/10/2020 | 4044750 | 20884540.4 |        |
| 4044778 | Delta Electronics, Inc.                                            | 29/08/2018 | 4044778 | 22166916.1 |        |
| 4044916 | Medtronic, Inc.                                                    | 16/09/2020 | 4044916 | 20781245.4 |        |
| 4046155 | Dolby Laboratories Licensing Corporation                           | 16/10/2020 | 4046155 | 20803394.4 |        |
|         | Dolby International AB                                             |            |         |            |        |
| 4047288 | Panasonic Intellectual Property Management Co., Ltd.               | 11/11/2021 | 4047288 | 21207696.2 |        |

|         |                                                                                                                 |            |         |            |        |
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| 4047453 | Commissariat à l'Energie Atomique et aux Energies Alternatives                                                  | 16/02/2022 | 4047453 | 22156929.6 | French |
| 4047575 | Distribución y Marketing Ltda.                                                                                  | 28/01/2022 | 4047575 | 22153946.3 |        |
| 4047913 | LG Electronics Inc.                                                                                             | 18/10/2019 | 4047913 | 19949383.4 |        |
| 4048232 | Universität Wien                                                                                                | 23/10/2020 | 4048232 | 20792686.6 |        |
| 4048364 | Anesteasy AB                                                                                                    | 09/10/2020 | 4048364 | 20790239.6 |        |
| 4049128 | Tencent America LLC                                                                                             | 06/08/2021 | 4049128 | 21878168.0 |        |
| 4049171 | Microsoft Technology Licensing, LLC                                                                             | 16/10/2020 | 4049171 | 20804060.0 |        |
| 4049423 | Google LLC                                                                                                      | 25/06/2020 | 4049423 | 20742993.7 |        |
| 4049712 | Medtronic Inc.                                                                                                  | 21/02/2022 | 4049712 | 22157788.5 |        |
| 4049865 | Kokusai Keisokuki Kabushiki Kaisha                                                                              | 23/10/2020 | 4049865 | 20879611.0 |        |
| 4050130 | China Petroleum & Chemical Corporation Dalian Research Institute Of Petroleum And Petrochemicals, Sinopec Corp. | 25/10/2020 | 4050130 | 20878216.9 |        |
| 4050381 | Hamamatsu Photonics K.K.                                                                                        | 09/07/2020 | 4050381 | 20879575.7 |        |
| 4050637 | National Institute for Materials Science                                                                        | 20/10/2020 | 4050637 | 20879034.5 |        |
| 4050659 | Chengdu BOE Optoelectronics Technology Co., Ltd.                                                                | 23/10/2019 | 4050659 | 19945409.1 |        |
|         | BOE Technology Group Co., Ltd.                                                                                  |            |         |            |        |
| 4050801 | Marvell Asia Pte, Ltd.                                                                                          | 22/02/2022 | 4050801 | 22157992.3 |        |
| 4050920 | CANON KABUSHIKI KAISHA                                                                                          | 24/02/2022 | 4050920 | 22158650.6 |        |
| 4051334 | The Regents of the University of California, A California Corporation                                           | 02/11/2020 | 4051334 | 20882717.0 |        |
| 4051570 | Rosenxt Holding AG                                                                                              | 02/11/2020 | 4051570 | 20811528.7 | German |
| 4051653 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.                                            | 02/11/2020 | 4051653 | 20800875.5 | German |
| 4052108 | WAYMO LLC                                                                                                       | 16/11/2020 | 4052108 | 20888315.7 |        |
| 4052455 | QUALCOMM Incorporated                                                                                           | 07/10/2020 | 4052455 | 20807142.3 |        |
| 4052612 | Fritz Egger GmbH & Co. OG                                                                                       | 06/11/2019 | 4052612 | 21217855.2 | German |
| 4052969 | Aptiv Technologies AG                                                                                           | 05/03/2021 | 4052969 | 21160906.0 |        |
| 4053245 | Hitachi High-Tech Corporation                                                                                   | 19/11/2020 | 4053245 | 20905041.8 |        |
| 4053575 | Eaton Intelligent Power Limited                                                                                 | 04/03/2022 | 4053575 | 22160289.9 |        |
| 4053917 | BOE Technology Group Co., Ltd.                                                                                  | 27/05/2021 | 4053917 | 21830212.3 |        |
| 4054077 | Amicro Semiconductor Co., Ltd.                                                                                  | 10/11/2019 | 4054077 | 19946877.8 |        |
| 4054312 | Fischer Maschinenbau GmbH & Co. KG                                                                              | 06/11/2020 | 4054312 | 20803813.3 | German |
| 4054405 | Tata Consultancy Services Limited                                                                               | 06/11/2020 | 4054405 | 20884813.5 |        |
| 4054656 | Clean Light Laboratories LLC                                                                                    | 06/11/2019 | 4054656 | 19951867.1 |        |
| 4054963 | Innovative Automation, Inc.                                                                                     | 09/11/2020 | 4054963 | 20885816.7 |        |
| 4055099 | Bridgestone Americas Tire Operations, LLC                                                                       | 05/11/2020 | 4055099 | 20885718.5 |        |
| 4055100 | COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN                                                                  | 04/11/2020 | 4055100 | 20817456.5 | French |
| 4055192 | Beth Israel Deaconess Medical Center, Inc.                                                                      | 05/11/2020 | 4055192 | 20885701.1 |        |
| 4055329 | Osäuhing Vecta Design                                                                                           | 03/11/2020 | 4055329 | 20833937.4 |        |
| 4055377 | Commonwealth Scientific and Industrial Research Organisation                                                    | 06/11/2020 | 4055377 | 20884030.6 |        |
| 4055619 | Robert Bosch GmbH                                                                                               | 28/10/2020 | 4055619 | 20800595.9 | German |
| 4055819 | ams International AG                                                                                            | 05/11/2020 | 4055819 | 20803493.4 |        |
| 4055871 | Lenovo (Singapore) Pte. Ltd.                                                                                    | 06/11/2020 | 4055871 | 20807894.9 |        |
| 4055874 | Mavenir Networks, Inc.                                                                                          | 04/11/2019 | 4055874 | 19952135.2 |        |
| 4055876 | InterDigital Patent Holdings, Inc.                                                                              | 06/11/2020 | 4055876 | 20824366.7 |        |
| 4055949 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)                                                                          | 06/11/2020 | 4055949 | 20807533.3 |        |
| 4056195 | Curenc AB                                                                                                       | 20/02/2019 | 4056195 | 22159490.6 |        |
| 4056688 | CJ Cheiljedang Corporation                                                                                      | 19/04/2021 | 4056688 | 21844948.6 |        |
| 4057238 | NEC Corporation                                                                                                 | 07/11/2019 | 4057238 | 19951940.6 |        |
| 4057428 | Prime Planet Energy & Solutions, Inc.                                                                           | 17/02/2022 | 4057428 | 22157285.2 |        |
| 4057471 | Huawei Digital Power Technologies Co., Ltd.                                                                     | 30/06/2020 | 4057471 | 20894031.2 |        |
| 4057881 | Paolozzi Investments, Inc.                                                                                      | 09/11/2020 | 4057881 | 20886853.9 |        |
| 4057890 | WIZP AS                                                                                                         | 13/11/2020 | 4057890 | 20823893.1 | French |
| 4058165 | Landscape Structures Inc.                                                                                       | 13/11/2020 | 4058165 | 20887372.9 |        |

|         |                                                                                               |            |         |            |        |
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| 4058278 | Victrex Manufacturing Limited                                                                 | 11/11/2020 | 4058278 | 20811042.9 |        |
| 4058627 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                             | 05/11/2020 | 4058627 | 20817460.7 | French |
| 4058630 | Buckman Laboratories International, Inc                                                       | 13/11/2020 | 4058630 | 20887232.5 |        |
| 4058675 | Copeland LP                                                                                   | 13/11/2020 | 4058675 | 20887862.9 |        |
| 4058740 | Senera Oy                                                                                     | 13/11/2019 | 4058740 | 19952226.9 |        |
| 4058818 | California Institute of Technology                                                            | 13/11/2020 | 4058818 | 20887149.1 |        |
| 4059187 | Micro Motion, Inc.                                                                            | 13/11/2019 | 4059187 | 19821323.3 |        |
| 4059250 | TELEFONAKTIEBOLAGET LM<br>ERICSSON (PUBL)                                                     | 10/11/2020 | 4059250 | 20887081.6 |        |
| 4060660 | Google LLC                                                                                    | 10/11/2020 | 4060660 | 22172659.9 |        |
| 4060810 | Tongyu Communication Inc.                                                                     | 22/11/2019 | 4060810 | 19952406.7 |        |
| 4060976 | Samsung Electronics Co., Ltd.                                                                 | 11/11/2020 | 4060976 | 20888008.8 |        |
| 4061624 | Continental Reifen Deutschland GmbH                                                           | 12/10/2020 | 4061624 | 20792592.6 | German |
| 4061997 | Andritz Oy                                                                                    | 13/11/2020 | 4061997 | 20816544.9 |        |
| 4062316 | 10X Genomics, Inc.                                                                            | 18/11/2020 | 4062316 | 20824787.4 |        |
| 4062342 | Lineage Logistics, LLC                                                                        | 19/11/2020 | 4062342 | 20824387.3 |        |
| 4062609 | Endress+Hauser Flowtec AG                                                                     | 09/11/2020 | 4062609 | 20804214.3 | German |
| 4062661 | ARRIS Enterprises LLC                                                                         | 19/11/2020 | 4062661 | 20825036.5 |        |
| 4062687 | QUALCOMM INCORPORATED                                                                         | 16/11/2020 | 4062687 | 20824044.0 |        |
| 4062882 | Aswan International Corp.                                                                     | 23/03/2021 | 4062882 | 21164142.8 |        |
| 4063251 | Acer Incorporated                                                                             | 14/06/2021 | 4063251 | 21179297.3 |        |
| 4063357 | Minerva Neurosciences, Inc.                                                                   | 30/11/2015 | 4063357 | 22155504.8 |        |
| 4063421 | FRANKEN SYSTEMS GmbH                                                                          | 07/02/2022 | 4063421 | 22155318.3 | German |
| 4063469 | Tianjin University                                                                            | 20/11/2019 | 4063469 | 19953539.4 |        |
| 4063550 | Ecolab USA, Inc.                                                                              | 23/03/2021 | 4063550 | 21164255.8 |        |
| 4063868 | Shenzhen Mindray Bio-Medical Electronics<br>Co., Ltd.                                         | 18/11/2019 | 4063868 | 19953448.8 |        |
| 4064384 | Ningde Amperex Technology Ltd.                                                                | 09/03/2022 | 4064384 | 22161197.3 |        |
| 4064413 | Dongguan Amperex Technology Limited<br>Contemporary Amperex Technology (Hong<br>Kong) Limited | 28/01/2021 | 4064413 | 21867887.8 |        |
| 4064673 | BHS Technologies GmbH                                                                         | 22/03/2021 | 4064673 | 21164041.2 |        |
| 4064836 | Volu Ventis ApS<br>P/F Vónin                                                                  | 24/11/2020 | 4064836 | 20816406.1 |        |
| 4064881 | Philip Morris Products, S.A.                                                                  | 23/11/2020 | 4064881 | 20815946.7 |        |
| 4065358 | COMPAGNIE GENERALE DES<br>ETABLISSEMENTS MICHELIN                                             | 26/11/2020 | 4065358 | 20824316.2 | French |
| 4065591 | EMP Biotech GmbH                                                                              | 24/11/2020 | 4065591 | 20829641.8 |        |
| 4065818 | Siemens Energy Global GmbH & Co. KG                                                           | 27/11/2020 | 4065818 | 20824115.8 |        |
| 4065935 | HELLA GMBH & CO. KGAA                                                                         | 29/11/2019 | 4065935 | 19816236.4 |        |
| 4066229 | TKMS GmbH<br>thyssenkrupp AG                                                                  | 17/11/2020 | 4066229 | 20808336.0 | German |
| 4066326 | Phoenix Contact GmbH & Co. KG                                                                 | 16/11/2020 | 4066326 | 20808328.7 | German |
| 4066327 | Phoenix Contact GmbH & Co. KG                                                                 | 24/11/2020 | 4066327 | 20812258.0 | German |
| 4066478 | QUALCOMM INCORPORATED                                                                         | 25/11/2019 | 4066478 | 19953776.2 |        |
| 4066509 | ScreenBeam Inc.                                                                               | 25/11/2020 | 4066509 | 20828712.8 |        |
| 4066692 | Nilsson, Rickard                                                                              | 24/02/2022 | 4066692 | 22158614.2 | German |
| 4067078 | Oji Holdings Corporation                                                                      | 25/11/2020 | 4067078 | 20894464.5 |        |
| 4067232 | Airbus Operations GmbH                                                                        | 14/03/2022 | 4067232 | 22161818.4 | German |
| 4067256 | Okura Industrial Co., Ltd.                                                                    | 25/11/2020 | 4067256 | 20892992.7 |        |
| 4067346 | Sunshine Lake Pharma Co., Ltd.                                                                | 26/11/2020 | 4067346 | 20893584.1 |        |
| 4067845 | NEC Corporation                                                                               | 29/11/2019 | 4067845 | 19954703.5 |        |
| 4068414 | Contemporary Amperex Technology (Hong<br>Kong) Limited                                        | 04/02/2021 | 4068414 | 21798540.7 |        |
| 4068708 | ZTE Corporation                                                                               | 12/08/2020 | 4068708 | 20893814.2 |        |
| 4069595 | Espera-Werke GmbH                                                                             | 26/11/2020 | 4069595 | 20815784.2 | German |
| 4070718 | Koa Health Digital Solutions S.L.U.                                                           | 15/06/2021 | 4070718 | 21179548.9 |        |
| 4071349 | Siemens Gamesa Renewable Energy A/S                                                           | 09/04/2021 | 4071349 | 21167602.8 |        |
| 4071892 | LG Energy Solution, Ltd.                                                                      | 26/04/2021 | 4071892 | 21809484.5 |        |

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| 4072685 | Rohm and Haas Company                     | 18/11/2020 | 4072685 | 20824026.7 |        |
|         | Dow Silicones Corporation                 |            |         |            |        |
|         | Union Carbide Corporation                 |            |         |            |        |
| 4073240 | DNA Script                                | 14/12/2020 | 4073240 | 20819606.3 |        |
| 4073524 | Université de Genève                      | 09/12/2020 | 4073524 | 20819778.0 |        |
| 4074999 | SUMITOMO ELECTRIC INDUSTRIES, LTD.        | 21/07/2020 | 4074999 | 20898697.6 |        |
| 4075624 | General Electric Renovables España S.L.   | 15/04/2021 | 4075624 | 21382321.4 |        |
| 4075660 | MINISWYS SA                               | 10/11/2020 | 4075660 | 20900367.2 |        |
|         | MITSUMI ELECTRIC CO., LTD.                |            |         |            |        |
| 4075668 | Sanechips Technology Co., Ltd.            | 26/11/2020 | 4075668 | 20900594.1 |        |
| 4075954 | DeLaval Holding AB                        | 10/12/2020 | 4075954 | 20828370.5 |        |
| 4077097 | Prodes GmbH                               | 20/11/2020 | 4077097 | 20811566.7 | German |
| 4077285 | KRKA, d.d., Novo mesto                    | 11/12/2020 | 4077285 | 20820958.5 |        |
| 4078812 | Microsoft Technology Licensing, LLC       | 09/11/2020 | 4078812 | 20811937.0 |        |
| 4079042 | Samsung Electronics Co., Ltd.             | 28/05/2021 | 4079042 | 21812500.3 |        |
| 4079157 | FUMAKILLA LIMITED                         | 05/01/2021 | 4079157 | 21738164.9 |        |
| 4079443 | SCHOTT AG                                 | 23/04/2021 | 4079443 | 21170243.6 | German |
| 4079816 | Dai Nippon Printing Co., Ltd.             | 16/11/2020 | 4079816 | 20903090.7 |        |
| 4080367 | NXP B.V.                                  | 04/04/2022 | 4080367 | 22166549.0 |        |
| 4080928 | mitsubishi electric corporation           | 29/01/2020 | 4080928 | 20916538.0 |        |
| 4082166 | Forescout Technologies, Inc.              | 12/11/2020 | 4082166 | 20820653.2 |        |
| 4083874 | Samsung Electronics Co., Ltd.             | 11/02/2022 | 4083874 | 22705003.6 |        |
| 4083888 | MasterCard International Incorporated     | 28/03/2022 | 4083888 | 22164849.6 |        |
| 4084296 | LG Innotek Co., Ltd.                      | 30/11/2020 | 4084296 | 20905482.4 |        |
| 4085452 | Google LLC                                | 20/01/2021 | 4085452 | 21703802.5 |        |
| 4086152 | SRAM, LLC                                 | 07/05/2021 | 4086152 | 21172712.8 | German |
| 4086457 | Siemens Gamesa Renewable Energy A/S       | 03/05/2021 | 4086457 | 21171802.8 |        |
| 4086621 | Nissui Corporation                        | 24/02/2022 | 4086621 | 22726378.7 |        |
| 4086678 | Huawei Technologies Co., Ltd.             | 19/01/2021 | 4086678 | 21745185.5 |        |
| 4087470 | Vioptix, Inc.                             | 11/01/2021 | 4087470 | 21738106.0 |        |
| 4088234 | Tencent America LLC                       | 30/09/2021 | 4088234 | 21920038.3 |        |
| 4088503 | Apple Inc.                                | 12/02/2020 | 4088503 | 20918571.9 |        |
| 4088507 | Samsung Electronics Co., Ltd.             | 10/02/2021 | 4088507 | 21754320.6 |        |
| 4089041 | Takazono Corporation                      | 20/04/2021 | 4089041 | 21793429.8 |        |
| 4089739 | Samsung Display Co., Ltd.                 | 09/05/2022 | 4089739 | 22172262.2 |        |
| 4090078 | Huawei Technologies Co., Ltd.             | 28/04/2018 | 4090078 | 22164618.5 |        |
| 4090132 | Lorenz, Steffen                           | 04/05/2022 | 4090132 | 22171695.4 | German |
|         | Lorenz, Martina                           |            |         |            |        |
| 4090214 | LG ELECTRONICS INC.                       | 14/10/2020 | 4090214 | 20913362.8 |        |
| 4090314 | McNeil AB                                 | 14/01/2021 | 4090314 | 21701923.1 |        |
| 4090426 | Verge Analytics, Inc.                     | 12/01/2021 | 4090426 | 21705700.9 |        |
| 4090497 | Wolfcraft GmbH                            | 13/01/2021 | 4090497 | 21700562.8 | German |
| 4090586 | TKMS GmbH                                 | 11/01/2021 | 4090586 | 21700516.4 | German |
|         | thyssenkrupp AG                           |            |         |            |        |
| 4090883 | Infinity X1 LLC                           | 08/05/2021 | 4090883 | 21804074.9 |        |
| 4090947 | KLA Corporation                           | 10/02/2021 | 4090947 | 21757813.7 |        |
| 4091412 | Ellipse World, Inc.                       | 13/01/2021 | 4091412 | 21784638.5 |        |
| 4091463 | ThreeMBotanik GmbH                        | 16/05/2022 | 4091463 | 22173446.0 | German |
| 4091574 | B&L Biotech, Inc.                         | 28/09/2020 | 4091574 | 20792272.5 |        |
|         | Lee, In Whan                              |            |         |            |        |
| 4091927 | SRAM, LLC                                 | 20/05/2022 | 4091927 | 22174618.3 |        |
| 4092617 | Fujita Academy                            | 20/05/2022 | 4092617 | 22174657.1 |        |
|         | Canon Medical Systems Corporation         |            |         |            |        |
| 4092800 | LG Energy Solution, Ltd.                  | 09/11/2021 | 4092800 | 21892280.5 |        |
| 4092880 | Mitsubishi Jidosha Kogyo Kabushiki Kaisha | 09/11/2020 | 4092880 | 20913212.5 |        |
| 4092988 | Schneider Electric USA, Inc.              | 17/05/2022 | 4092988 | 22173696.0 |        |
| 4093018 | Karl Storz SE & Co. KG                    | 18/05/2022 | 4093018 | 22174013.7 | German |
| 4093241 | Visplay GmbH                              | 25/01/2021 | 4093241 | 21701976.9 | German |
| 4093449 | Aerus Medical, LLC                        | 22/01/2021 | 4093449 | 21743814.2 |        |

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| 4094366 | Nokia Technologies Oy                                                                                          | 20/01/2020 | 4094366 | 20915225.5 |        |
| 4094521 | Apple Inc.                                                                                                     | 06/04/2021 | 4094521 | 21873699.9 |        |
| 4094804 | CHUGAI SEIYAKU KABUSHIKI<br>KAISHA                                                                             | 21/01/2021 | 4094804 | 21744061.9 |        |
| 4094878 | Rogers BV                                                                                                      | 27/05/2021 | 4094878 | 21176188.7 |        |
| 4095044 | Goodrich Lighting Systems GmbH & Co.<br>KG                                                                     | 25/05/2021 | 4095044 | 21175640.8 |        |
| 4096724 | PUREORR LTD.                                                                                                   | 01/02/2021 | 4096724 | 21711055.0 |        |
| 4096988 | thyssenkrupp Presta AG<br>thyssenkrupp AG                                                                      | 25/01/2021 | 4096988 | 21701968.6 | German |
| 4097488 | THALES                                                                                                         | 29/01/2021 | 4097488 | 21701806.8 | French |
| 4097684 | Magic Leap, Inc.                                                                                               | 25/01/2021 | 4097684 | 21747775.1 |        |
| 4097738 | PAIGE.AI, Inc.                                                                                                 | 27/01/2021 | 4097738 | 21709508.2 |        |
| 4097934 | Hitachi Energy Ltd                                                                                             | 29/01/2021 | 4097934 | 21701555.1 |        |
| 4098080 | BSH Hausgeräte GmbH                                                                                            | 13/01/2021 | 4098080 | 21700129.6 | German |
| 4098081 | BSH Hausgeräte GmbH                                                                                            | 13/01/2021 | 4098081 | 21700213.8 | German |
| 4098082 | BSH Hausgeräte GmbH                                                                                            | 13/01/2021 | 4098082 | 21700214.6 | German |
| 4098098 | Yamabiko Corporation                                                                                           | 27/05/2022 | 4098098 | 22175806.3 |        |
| 4099049 | Huawei Technologies Co., Ltd.                                                                                  | 02/03/2020 | 4099049 | 20923651.2 |        |
| 4099296 | HERE Global B.V.                                                                                               | 01/06/2022 | 4099296 | 22176613.2 |        |
| 4099426 | LG Energy Solution, Ltd.                                                                                       | 15/11/2021 | 4099426 | 21915514.0 |        |
| 4099586 | SHIMADZU CORPORATION                                                                                           | 27/01/2020 | 4099586 | 20917220.4 |        |
| 4099933 | Smith & Nephew, Inc.<br>Smith & Nephew Orthopaedics AG<br>Smith & Nephew Asia Pacific Pte. Limited             | 08/02/2021 | 4099933 | 21709285.7 |        |
| 4100106 | Abiomed Europe GmbH                                                                                            | 02/02/2021 | 4100106 | 21703240.8 |        |
| 4100693 | Fraunhofer-Gesellschaft zur Förderung der<br>angewandten Forschung e.V.<br>Friedrich-Schiller-Universität Jena | 05/02/2021 | 4100693 | 21704226.6 | German |
| 4101187 | Briggs & Stratton, LLC                                                                                         | 05/02/2021 | 4101187 | 21750960.3 |        |
| 4101211 | Telefonaktiebolaget LM Ericsson (publ)                                                                         | 04/02/2021 | 4101211 | 21709327.7 |        |
| 4101509 | Kusznierz, Björn<br>Kaule, Mario                                                                               | 09/06/2022 | 4101509 | 22178061.2 | German |
| 4101797 | TMT Machinery, Inc.                                                                                            | 02/06/2022 | 4101797 | 22176936.7 |        |
| 4102186 | Shenzhen Yinwang Intelligent Technologies<br>Co., Ltd.                                                         | 24/02/2021 | 4102186 | 21761037.7 |        |
| 4103763 | Linde GmbH                                                                                                     | 19/11/2020 | 4103763 | 20812221.8 | German |
| 4104147 | SCAN COIN AB                                                                                                   | 10/02/2021 | 4104147 | 21703297.8 |        |
| 4104319 | OneFiber Interconnect Germany GmbH                                                                             | 10/02/2021 | 4104319 | 21705149.9 | German |
| 4105668 | LG Energy Solution, Ltd.                                                                                       | 29/10/2021 | 4105668 | 21898385.6 |        |
| 4105694 | Sony Semiconductor Solutions Corporation                                                                       | 04/02/2021 | 4105694 | 21753084.9 |        |
| 4105985 | NXP USA, Inc.                                                                                                  | 27/05/2022 | 4105985 | 22175824.6 |        |
| 4106027 | Novald GmbH                                                                                                    | 18/06/2021 | 4106027 | 21180349.9 |        |
| 4106030 | Novald GmbH                                                                                                    | 18/06/2021 | 4106030 | 21180327.5 |        |
| 4106086 | LG Energy Solution, Ltd.                                                                                       | 12/11/2021 | 4106086 | 21892361.3 |        |
| 4106093 | LG Energy Solution, Ltd.                                                                                       | 01/11/2021 | 4106093 | 21886948.5 |        |
| 4106444 | Huawei Technologies Co., Ltd.                                                                                  | 14/02/2020 | 4106444 | 20919310.1 |        |
| 4106533 | Koninklijke Douwe Egberts B.V.                                                                                 | 17/02/2021 | 4106533 | 21706554.9 |        |
| 4107449 | MBDA UK Limited                                                                                                | 09/02/2021 | 4107449 | 21703764.7 |        |
| 4108345 | Dispensing Technologies B.V.                                                                                   | 06/11/2013 | 4108345 | 22152096.8 |        |
| 4108478 | BRIDGESTONE CORPORATION                                                                                        | 16/02/2021 | 4108478 | 21757990.3 |        |
| 4109105 | Hitachi High-Tech Corporation                                                                                  | 18/01/2021 | 4109105 | 21756866.6 |        |
| 4109273 | Thales Management & Services<br>Deutschland GmbH                                                               | 17/06/2022 | 4109273 | 22179507.3 | German |
| 4109284 | Bosch Automotive Products (Suzhou) Co.,<br>Ltd.                                                                | 09/02/2021 | 4109284 | 21757503.4 |        |
| 4110168 | Ganton, Robert Bruce                                                                                           | 27/02/2021 | 4110168 | 21761032.8 |        |
| 4110576 | Georg-August-Universität Göttingen<br>Stiftung Öffentlichen Rechts                                             | 24/02/2021 | 4110576 | 21708198.3 | German |
| 4110652 | Stellantis Auto SAS                                                                                            | 09/02/2021 | 4110652 | 21705125.9 | German |
| 4110739 | Saint-Gobain Glass France                                                                                      | 25/02/2021 | 4110739 | 21711310.9 | French |
| 4110847 | Sika Technology AG                                                                                             | 22/02/2021 | 4110847 | 21705990.6 | German |

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| 4111088 | MAN Truck & Bus SE                                        | 01/02/2021 | 4111088 | 21703005.5 | German |
| 4111136 | Yara International ASA                                    | 26/02/2021 | 4111136 | 21706994.7 |        |
| 4111254 | Apple Inc.                                                | 04/05/2021 | 4111254 | 21727728.4 |        |
| 4111536 | Huawei Technologies Co., Ltd.                             | 06/04/2020 | 4111536 | 20717837.7 |        |
| 4111841 | Deere & Company                                           | 09/06/2022 | 4111841 | 22178044.8 |        |
| 4111859 | Deere & Company                                           | 09/06/2022 | 4111859 | 22178042.2 |        |
| 4111936 | FUJIFILM Corporation                                      | 17/02/2021 | 4111936 | 21761328.0 |        |
| 4112030 | James Lecky Design Limited                                | 30/06/2022 | 4112030 | 22182250.5 |        |
| 4112089 | MENICON CO., LTD.<br>The University of Osaka              | 21/01/2021 | 4112089 | 21759966.1 |        |
| 4112096 | Avanos Medical Sales, LLC                                 | 14/12/2020 | 4112096 | 22179748.3 |        |
| 4112313 | Kyocera Corporation                                       | 26/03/2021 | 4112313 | 21781988.7 |        |
| 4112995 | Suzhou Oppl Lighting Co., Ltd.<br>Oppl Lighting Co., Ltd. | 28/05/2021 | 4112995 | 21813484.9 |        |
| 4112996 | C&E Group S.r.l.                                          | 29/06/2022 | 4112996 | 22181923.8 |        |
| 4113348 | VOLKSWAGEN AG                                             | 20/05/2022 | 4113348 | 22174696.9 | German |
| 4113438 | BEIJING BYTEDANCE NETWORK<br>TECHNOLOGY CO., LTD.         | 18/02/2021 | 4113438 | 21761230.8 |        |
| 4113580 | Huawei Technologies Co., Ltd.                             | 04/03/2021 | 4113580 | 21780127.3 |        |
| 4114082 | Nokia Technologies Oy                                     | 24/05/2022 | 4114082 | 22174995.5 |        |
| 4114605 | Magna International Inc.                                  | 26/02/2021 | 4114605 | 21709638.7 | German |
| 4115890 | Daily Vita Limited Company                                | 29/04/2022 | 4115890 | 22170950.4 |        |
| 4116103 | SMI S.p.A.                                                | 05/07/2022 | 4116103 | 22183005.2 |        |
| 4116508 | Neoperl GmbH                                              | 28/04/2022 | 4116508 | 22170548.6 | German |
| 4116520 | SACOPA, S.A.U.                                            | 06/07/2021 | 4116520 | 21382603.5 |        |
| 4117265 | Panasonic Intellectual Property<br>Management Co., Ltd.   | 04/03/2021 | 4117265 | 21765255.1 |        |
| 4117405 | Huawei Technologies Co., Ltd.                             | 24/03/2021 | 4117405 | 21774280.8 |        |
| 4117852 | Applied Materials, Inc.                                   | 25/02/2021 | 4117852 | 21767525.5 |        |
| 4118716 | Ceragon Networks LTD.                                     | 08/03/2021 | 4118716 | 21767932.3 |        |
| 4118730 | Koninklijke Philips N.V.                                  | 03/03/2021 | 4118730 | 21708035.7 |        |
| 4118853 | Nordic Semiconductor ASA                                  | 11/03/2021 | 4118853 | 21712125.0 |        |
| 4119611 | Borealis GmbH                                             | 13/07/2021 | 4119611 | 21185234.8 |        |
| 4119802 | PRATT & WHITNEY CANADA CORP.                              | 13/07/2022 | 4119802 | 22184810.4 |        |
| 4120490 | ABB SCHWEIZ AG                                            | 14/07/2021 | 4120490 | 21185574.7 |        |
| 4120563 | Wuhan United Imaging Healthcare Co.,<br>Ltd.              | 14/07/2022 | 4120563 | 22185049.8 |        |
| 4120878 | AptarGroup, Inc.                                          | 11/05/2021 | 4120878 | 21803423.9 |        |
| 4121567 | The University of North Carolina at Chapel<br>Hill        | 16/03/2021 | 4121567 | 21771671.1 |        |
| 4121703 | LG Electronics Inc.                                       | 25/01/2021 | 4121703 | 21772401.2 |        |
| 4121965 | WESTERN DIGITAL TECHNOLOGIES,<br>INC.                     | 01/07/2020 | 4121965 | 20925494.5 |        |
| 4122858 | Rieter AG                                                 | 13/07/2022 | 4122858 | 22184791.6 | German |
| 4123161 | LM Wind Power A/S                                         | 23/07/2021 | 4123161 | 21382681.1 |        |
| 4123168 | Siemens Gamesa Renewable Energy A/S                       | 19/07/2021 | 4123168 | 21186324.6 |        |
| 4123198 | Valeo Kapec Co., Ltd.                                     | 19/07/2022 | 4123198 | 22185604.0 |        |
| 4123630 | BOE Technology Group Co., Ltd.                            | 19/03/2020 | 4123630 | 20925634.6 |        |
| 4124087 | Huawei Technologies Co., Ltd.                             | 24/03/2021 | 4124087 | 21779303.3 |        |
| 4124147 | NTT, Inc.                                                 | 17/03/2020 | 4124147 | 20926089.2 |        |
| 4124171 | Greeniuz Holding B.V.                                     | 22/07/2022 | 4124171 | 22186535.5 |        |
| 4124254 | Deckers Outdoor Corporation                               | 05/07/2022 | 4124254 | 22183127.4 |        |
| 4124411 | FERRARI GROUP S.R.L.                                      | 29/07/2022 | 4124411 | 22187972.9 |        |
| 4124475 | Zhejiang Zhiyou Automotive Technology<br>Co., Ltd.        | 06/05/2022 | 4124475 | 22171972.7 |        |
| 4124774 | Vibracoustic USA, Inc.                                    | 29/07/2022 | 4124774 | 22187874.7 |        |
| 4124930 | Beijing Xiaomi Mobile Software Co., Ltd.                  | 14/01/2022 | 4124930 | 22151650.3 |        |
| 4125522 | V. BRØNDUM A/S                                            | 16/03/2021 | 4125522 | 21712801.6 |        |
| 4125641 | Covidien LP                                               | 02/03/2021 | 4125641 | 21713855.1 |        |
| 4126176 | Covidien LP                                               | 09/03/2021 | 4126176 | 21715093.7 |        |
| 4126761 | Messer SE & Co. KGaA                                      | 17/03/2021 | 4126761 | 21713001.2 | German |
| 4127454 | LM Wind Power A/S                                         | 15/03/2021 | 4127454 | 21712980.8 |        |



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| 4127460 | Siemens Gamesa Renewable Energy A/S                  | 28/05/2021 | 4127460 | 21729499.0 |        |
| 4127757 | Imperial College Innovations Limited                 | 26/03/2021 | 4127757 | 21715312.1 |        |
| 4127892 | VMware LLC                                           | 17/07/2021 | 4127892 | 21758488.7 |        |
| 4128019 | Neogen Food Safety US HoldCo Corporation             | 23/03/2021 | 4128019 | 21714962.4 |        |
| 4128166 | Qualcomm Incorporated                                | 05/03/2021 | 4128166 | 21714755.2 |        |
| 4128228 | Microsoft Technology Licensing, LLC                  | 22/02/2021 | 4128228 | 21710853.9 |        |
| 4128236 | Micron Technology, Inc.                              | 26/03/2021 | 4128236 | 21778815.7 |        |
| 4128254 | ZOLL Medical Corporation                             | 30/03/2021 | 4128254 | 21722603.4 |        |
| 4129317 | Exocobio Inc.                                        | 18/05/2021 | 4129317 | 21818610.4 |        |
| 4129489 | Lechler GmbH                                         | 28/07/2022 | 4129489 | 22187381.3 | German |
| 4129605 | Indaver Plastics Recycling nv                        | 05/08/2022 | 4129605 | 22188999.1 |        |
| 4129612 | LG Energy Solution, Ltd.                             | 10/11/2021 | 4129612 | 21892313.4 |        |
| 4129828 | Airbus SAS                                           | 08/07/2022 | 4129828 | 22183709.9 | French |
|         | AIRBUS OPERATIONS (S.A.S.)                           |            |         |            |        |
| 4130464 | CRRC Shandong Wind Power Co., Ltd.                   | 02/07/2021 | 4130464 | 21908531.3 |        |
| 4130909 | Tetra Laval Holdings & Finance S.A.                  | 11/07/2022 | 4130909 | 22184026.7 |        |
| 4131065 | Institute of Automation, Chinese Academy of Sciences | 20/04/2021 | 4131065 | 21796712.4 |        |
|         | Huawei Technologies Co., Ltd.                        |            |         |            |        |
| 4131126 | Mitsubishi Heavy Industries Thermal Systems, Ltd.    | 26/03/2021 | 4131126 | 21779164.9 |        |
| 4131447 | TCL Technology Group Corporation                     | 12/11/2021 | 4131447 | 21893828.0 |        |
| 4131605 | LG Energy Solution, Ltd.                             | 12/11/2021 | 4131605 | 21892379.5 |        |
| 4132075 | Huawei Technologies Co., Ltd.                        | 13/04/2021 | 4132075 | 21789136.5 |        |
| 4134298 | ROSEMOUNT AEROSPACE INC.                             | 11/08/2022 | 4134298 | 22190049.1 |        |
| 4134553 | Daikin Industries, Ltd.                              | 01/03/2021 | 4134553 | 21800861.3 |        |
| 4134917 | Varjo Technologies Oy                                | 21/06/2022 | 4134917 | 22180044.4 |        |
| 4135420 | Sharp Kabushiki Kaisha                               | 08/04/2021 | 4135420 | 21785151.8 |        |
| 4135463 | Vivo Mobile Communication Co., Ltd.                  | 12/10/2018 | 4135463 | 22199568.1 |        |
| 4135796 | Bayer Healthcare LLC                                 | 31/03/2021 | 4135796 | 21720893.3 |        |
| 4135926 | IPG Photonics Corporation                            | 16/04/2021 | 4135926 | 21788188.7 |        |
| 4136862 | ZTE Corporation                                      | 15/05/2020 | 4136862 | 20896633.3 |        |
| 4136923 | Nokia Technologies Oy                                | 05/02/2021 | 4136923 | 21703895.9 |        |
| 4137033 | Intuitive Surgical Operations, Inc.                  | 02/04/2020 | 4137033 | 22199144.1 |        |
| 4137103 | AMO Development, LLC                                 | 19/10/2012 | 4137103 | 22199057.5 |        |
| 4137397 | SRAM, LLC                                            | 18/10/2021 | 4137397 | 22194053.9 |        |
| 4137399 | Woosung I.B Co., Ltd                                 | 31/03/2021 | 4137399 | 21789170.4 |        |
| 4137852 | Sumitomo Electric Optifrontier Co., Ltd.             | 12/04/2021 | 4137852 | 21789509.3 |        |
| 4138111 | Schneider Electric Industries SAS                    | 05/08/2022 | 4138111 | 22188956.1 | French |
| 4138369 | Samsung Electronics Co., Ltd.                        | 19/02/2020 | 4138369 | 22200587.8 |        |
| 4138974 | ConvaTec Limited                                     | 23/04/2021 | 4138974 | 21724008.4 |        |
| 4139037 | UOP LLC                                              | 14/04/2021 | 4139037 | 21792269.9 |        |
| 4139169 | Kiekert Aktiengesellschaft                           | 16/02/2021 | 4139169 | 21724544.8 | German |
| 4139665 | Krones AG                                            | 14/04/2021 | 4139665 | 21719584.1 | German |
| 4139842 | Eaton Intelligent Power Limited                      | 14/04/2021 | 4139842 | 21718867.1 |        |
| 4140949 | LG Energy Solution, Ltd.                             | 22/11/2021 | 4140949 | 21898520.8 |        |
| 4141240 | Rolls-Royce plc                                      | 10/08/2022 | 4141240 | 22189625.1 |        |
| 4141310 | Airbus Operations Limited                            | 17/08/2022 | 4141310 | 22190879.1 |        |
|         | Airbus Operations GmbH                               |            |         |            |        |
| 4141394 | YOKOGAWA ELECTRIC CORPORATION                        | 29/08/2022 | 4141394 | 22192536.5 |        |
| 4141521 | Envisics Ltd.                                        | 12/07/2022 | 4141521 | 22184411.1 |        |
| 4141633 | Vivo Mobile Communication Co., Ltd.                  | 21/05/2021 | 4141633 | 21812900.5 |        |
| 4141637 | Honor Device Co., Ltd.                               | 25/05/2022 | 4141637 | 22802489.9 |        |
| 4141989 | LG Energy Solution, Ltd.                             | 10/09/2021 | 4141989 | 21869643.3 |        |
| 4142366 | InterDigital Patent Holdings, Inc.                   | 30/06/2017 | 4142366 | 22200591.0 |        |
| 4142621 | Covidien LP                                          | 28/04/2020 | 4142621 | 20933611.4 |        |
| 4142832 | Galderma Holding SA                                  | 30/04/2021 | 4142832 | 21722304.9 |        |
| 4143085 | Volansi, Inc.                                        | 30/04/2021 | 4143085 | 21797297.5 |        |
| 4143410 | Hunter Douglas Inc.                                  | 04/03/2021 | 4143410 | 21715999.5 |        |
| 4143421 | SAFRAN AIRCRAFT ENGINES                              | 22/04/2021 | 4143421 | 21732391.4 | French |

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| 4143637 | Photronics, Inc.                                                                                        | 30/04/2021 | 4143637 | 21797676.0 |        |
| 4143807 | J. Brasch Co., LLC                                                                                      | 05/04/2021 | 4143807 | 21763869.1 |        |
| 4145111 | Lumivascular, Inc.                                                                                      | 28/05/2010 | 4145111 | 22202861.5 |        |
| 4145185 | Enercorp Engineered Solutions, LLC                                                                      | 30/04/2014 | 4145185 | 22203946.3 |        |
| 4145249 | INTEL Corporation                                                                                       | 04/08/2022 | 4145249 | 22188836.5 |        |
| 4145507 | Commissariat à l'Energie Atomique et aux<br>Energies Alternatives                                       | 22/08/2022 | 4145507 | 22191493.0 | French |
| 4146893 | Brose Fahrzeugteile SE & Co.<br>Kommanditgesellschaft, Bamberg                                          | 30/04/2021 | 4146893 | 21724212.2 | German |
| 4147152 | Esko Software BV                                                                                        | 30/11/2020 | 4147152 | 20816953.2 |        |
| 4147653 | Covidien LP                                                                                             | 09/09/2022 | 4147653 | 22194971.2 |        |
| 4147901 | Aptiv Technologies AG                                                                                   | 08/09/2022 | 4147901 | 22194594.2 |        |
| 4148033 | China Petroleum & Chemical Corporation<br>Sinopec Research Institute of Safety<br>Engineering Co., Ltd. | 26/01/2021 | 4148033 | 21825888.7 |        |
| 4148034 | Sinochem Hebei Fuheng Co., Ltd                                                                          | 10/08/2021 | 4148034 | 21943312.5 |        |
| 4148117 | Finnadvance Oy                                                                                          | 14/06/2022 | 4148117 | 22178933.2 |        |
| 4148199 | HÖRMANN KG AMSHAUSEN                                                                                    | 09/09/2022 | 4148199 | 22194893.8 | German |
| 4148278 | Hamilton Sundstrand Corporation                                                                         | 18/08/2022 | 4148278 | 22191045.8 |        |
| 4148336 | Hitachi-Johnson Controls Air Conditioning,<br>Inc.                                                      | 27/02/2020 | 4148336 | 20904233.2 |        |
| 4148351 | Hisense Refrigerator Co., Ltd.                                                                          | 04/06/2020 | 4148351 | 20934346.6 |        |
| 4150036 | Reckitt Benckiser Finish B.V.                                                                           | 12/05/2021 | 4150036 | 21726081.9 |        |
| 4150245 | Chart Inc.                                                                                              | 13/05/2021 | 4150245 | 21729746.4 |        |
| 4150493 | Aerendir Mobile Inc.                                                                                    | 11/05/2021 | 4150493 | 21803141.7 |        |
| 4150870 | QUALCOMM INCORPORATED                                                                                   | 01/04/2021 | 4150870 | 21721304.0 |        |
| 4151224 | Seoul National University R & DB<br>Foundation<br>Korea University Research and Business<br>Foundation  | 14/05/2021 | 4151224 | 21803905.5 |        |
| 4151647 | University of Gdansk                                                                                    | 13/05/2022 | 4151647 | 22173183.9 |        |
| 4151853 | VESTAS WIND SYSTEMS A/S                                                                                 | 17/09/2021 | 4151853 | 21197446.4 |        |
| 4152262 | The Boeing Company                                                                                      | 10/06/2022 | 4152262 | 22178289.9 |        |
| 4152273 | Samsung Electronics Co., Ltd.<br>Korea University Research and Business<br>Foundation                   | 04/08/2022 | 4152273 | 22188688.0 |        |
| 4152323 | Panasonic Intellectual Property<br>Management Co., Ltd.                                                 | 06/11/2020 | 4152323 | 20935356.4 |        |
| 4152455 | LG Energy Solution, Ltd.                                                                                | 14/09/2022 | 4152455 | 22195484.5 |        |
| 4152456 | LG Energy Solution, Ltd.                                                                                | 14/09/2022 | 4152456 | 22195590.9 |        |
| 4152479 | Contemporary Amperex Technology (Hong<br>Kong) Limited                                                  | 30/07/2021 | 4152479 | 21937198.6 |        |
| 4152508 | LG Energy Solution, Ltd.                                                                                | 16/07/2021 | 4152508 | 21842946.2 |        |
| 4152998 | Bauerfeind AG                                                                                           | 17/05/2021 | 4152998 | 21727419.0 | German |
| 4153259 | Orteq B.V.                                                                                              | 13/11/2020 | 4153259 | 20936540.2 |        |
| 4153823 | Champion Link International Corporation                                                                 | 19/05/2021 | 4153823 | 21728020.5 |        |
| 4153908 | Lumileds LLC                                                                                            | 18/05/2021 | 4153908 | 21807950.7 |        |
| 4154329 | Ricoh Company, Ltd.                                                                                     | 25/03/2021 | 4154329 | 21718194.0 |        |
| 4154417 | Samsung Electronics Co., Ltd.                                                                           | 02/11/2021 | 4154417 | 21894951.9 |        |
| 4154737 | KT & G Corporation                                                                                      | 23/06/2022 | 4154737 | 22801947.7 |        |
| 4155084 | SCREEN Holdings Co., Ltd.                                                                               | 01/09/2022 | 4155084 | 22193393.0 |        |
| 4155148 | VOLKSWAGEN AG                                                                                           | 16/06/2022 | 4155148 | 22179448.0 | German |
| 4155559 | Goodrich Corporation                                                                                    | 26/09/2022 | 4155559 | 22197841.4 |        |
| 4155828 | Canon Kabushiki Kaisha                                                                                  | 08/09/2022 | 4155828 | 22194537.1 |        |
| 4156201 | Siemens Healthineers AG                                                                                 | 27/09/2022 | 4156201 | 22197917.2 |        |
| 4156388 | BYD Company Limited                                                                                     | 11/11/2020 | 4156388 | 20936964.4 |        |
| 4156645 | New H3C Technologies Co., Ltd.                                                                          | 27/11/2020 | 4156645 | 20962877.5 |        |
| 4156879 | OVH                                                                                                     | 29/08/2022 | 4156879 | 22306275.3 |        |
| 4157024 | Nike Innovate C.V.                                                                                      | 25/05/2021 | 4157024 | 21735460.4 |        |
| 4157365 | CAO Group, Inc                                                                                          | 28/05/2021 | 4157365 | 21818916.5 |        |
| 4157545 | RPC Bramlage GmbH                                                                                       | 28/05/2021 | 4157545 | 21731409.5 |        |
| 4157546 | Promens SA                                                                                              | 28/05/2021 | 4157546 | 21731410.3 |        |

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| 4157696 | Mercedes-Benz Group AG                              | 12/07/2022 | 4157696 | 22741768.0 | German |
| 4158126 | Hyperframe Inc.                                     | 01/06/2021 | 4158126 | 21743603.9 |        |
| 4159457 | FUJIFILM Corporation                                | 24/05/2021 | 4159457 | 21812952.6 |        |
| 4159615 | Lockheed Martin Corporation                         | 22/09/2022 | 4159615 | 22197043.7 |        |
| 4160183 | So, Shimbu                                          | 28/05/2021 | 4160183 | 21817325.0 |        |
| 4160261 | Shenzhen Yinwang Intelligent Technologies Co., Ltd. | 23/03/2021 | 4160261 | 21833430.8 | German |
| 4161114 | JRD Communication (Shenzhen) Ltd                    | 04/08/2020 | 4161114 | 20938040.1 |        |
| 4162293 | ASSA ABLOY AB                                       | 01/06/2021 | 4162293 | 21731075.4 |        |
| 4162965 | Flowax MD Limited                                   | 06/10/2021 | 4162965 | 21201269.4 |        |
| 4163902 | G.U.N.T. Gerätebau GmbH                             | 07/10/2021 | 4163902 | 21201517.6 |        |
| 4164452 | Istikbal Mobilya Sanayi Ve Ticaret A.S.             | 03/05/2021 | 4164452 | 21849483.9 | French |
| 4164808 | medmix Switzerland AG                               | 09/11/2021 | 4164808 | 21810310.9 |        |
| 4165535 | Webroot Inc.                                        | 10/06/2021 | 4165535 | 21821707.3 |        |
| 4166458 | The Boeing Company                                  | 28/11/2013 | 4166458 | 22178754.2 |        |
| 4167070 | Memento Cloud                                       | 11/10/2022 | 4167070 | 22200902.9 |        |
| 4167536 | Beijing Xiaomi Mobile Software Co., Ltd.            | 15/06/2020 | 4167536 | 20941366.5 | German |
| 4169015 | Google LLC                                          | 30/11/2021 | 4169015 | 21835476.9 |        |
| 4169455 | Teleflex Life Sciences LLC                          | 08/06/2011 | 4169455 | 22211522.2 |        |
| 4170230 | Hasco Vision Technology Co., Ltd.                   | 15/07/2021 | 4170230 | 21842895.1 |        |
| 4170365 | Hamilton Sundstrand Corporation                     | 10/10/2022 | 4170365 | 22200567.0 |        |
| 4170458 | Samsung Electronics Co., Ltd.                       | 10/08/2021 | 4170458 | 21866999.2 | German |
| 4170708 | Infineon Technologies Austria AG                    | 15/03/2019 | 4170708 | 22212856.3 |        |
| 4170887 | Huawei Digital Power Technologies Co., Ltd.         | 07/07/2020 | 4170887 | 20944734.1 |        |
| 4170907 | Infineon Technologies Austria AG                    | 19/10/2021 | 4170907 | 21203375.7 |        |
| 4171007 | Huawei Technologies Co., Ltd.                       | 28/05/2021 | 4171007 | 21830071.3 |        |
| 4171028 | Samsung Electronics Co., Ltd.                       | 28/06/2021 | 4171028 | 21837623.4 | German |
| 4171106 | Juniper Networks, Inc.                              | 21/10/2022 | 4171106 | 22203048.8 |        |
| 4171184 | Samsung Electronics Co., Ltd.                       | 11/06/2021 | 4171184 | 21829227.4 |        |
| 4171696 | ResMed Asia Pte. Ltd.                               | 30/06/2021 | 4171696 | 21832433.3 |        |
| 4172128 | Rolls-Royce Deutschland Ltd & Co KG                 | 28/06/2021 | 4172128 | 21736320.9 |        |
| 4172459 | SRI Energy, Inc.                                    | 29/06/2021 | 4172459 | 21832947.2 | German |
| 4172654 | Samsung Electronics Co., Ltd.                       | 28/10/2021 | 4172654 | 21886855.2 |        |
| 4173564 | Park, Yong Nam                                      | 26/08/2021 | 4173564 | 21845820.6 |        |
| 4174639 | BEIJING BAIDU NETCOM SCIENCE TECHNOLOGY CO., LTD.   | 17/11/2021 | 4174639 | 21918116.1 |        |
| 4174645 | ZTE Corporation                                     | 18/03/2021 | 4174645 | 21833429.0 |        |
| 4174989 | Lg Chem, Ltd.                                       | 06/08/2021 | 4174989 | 21852462.7 | German |
| 4175234 | Huawei Technologies Co., Ltd.                       | 21/05/2021 | 4175234 | 21818264.0 |        |
| 4175369 | LG ELECTRONICS INC.                                 | 29/07/2021 | 4175369 | 21850169.0 |        |
| 4175372 | Apple Inc.                                          | 09/09/2022 | 4175372 | 22194962.1 |        |
| 4175492 | Manni Oil Società Agricola S.r.l.                   | 11/10/2021 | 4175492 | 21810444.6 |        |
| 4175653 | Shiban Canada Inc.                                  | 11/11/2021 | 4175653 | 21890438.1 | German |
| 4176234 | Google LLC                                          | 11/09/2020 | 4176234 | 20781162.1 |        |
| 4176275 | ERS electronic GmbH                                 | 27/07/2021 | 4176275 | 21761975.8 |        |
| 4176572 | Telefonaktiebolaget LM ERICSSON (PUBL)              | 28/06/2021 | 4176572 | 21737609.4 |        |
| 4176930 | Neuboron Therapy System Ltd.                        | 02/07/2021 | 4176930 | 21834377.0 |        |
| 4176986 | POSCO Co., Ltd                                      | 18/11/2020 | 4176986 | 20950405.9 | German |
| 4177136 | TOYOTA MATERIAL HANDLING MANUFACTURING ITALY S.p.A  | 27/10/2022 | 4177136 | 22204015.6 |        |
| 4177420 | Jensen, Christin                                    | 07/11/2022 | 4177420 | 22205748.1 |        |
| 4177623 | Hamilton Sundstrand Corporation                     | 31/10/2022 | 4177623 | 22204709.4 |        |
| 4177671 | Lg Chem, Ltd.                                       | 01/07/2021 | 4177671 | 21832312.9 |        |
| 4177682 | Geberit International AG                            | 04/11/2021 | 4177682 | 21206547.8 | German |
| 4177840 | Bundesdruckerei GmbH                                | 02/11/2022 | 4177840 | 22204996.7 |        |
| 4177862 | Canon Kabushiki Kaisha                              | 02/11/2022 | 4177862 | 22205013.0 |        |
| 4177924 | ABB SCHWEIZ AG                                      | 04/11/2021 | 4177924 | 21206496.8 |        |
| 4178410 | Karl Storz SE & Co. KG                              | 05/07/2021 | 4178410 | 21746652.3 |        |
| 4178471 | Karl Storz SE & Co. KG                              | 05/07/2021 | 4178471 | 21746655.6 | German |
| 4179187 | Corning Incorporated                                | 08/07/2020 | 4179187 | 20944507.1 |        |

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| 4179946 | BSH Hausgeräte GmbH                                                                                                        | 26/09/2018 | 4179946 | 22210043.0 | German |
| 4179958 | Optomed Plc                                                                                                                | 16/11/2021 | 4179958 | 21208395.0 |        |
| 4179975 | Covidien LP                                                                                                                | 09/11/2022 | 4179975 | 22206347.1 |        |
| 4180108 | Bokela GmbH                                                                                                                | 12/11/2021 | 4180108 | 21208017.0 | German |
| 4180129 | L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude                                  | 15/11/2021 | 4180129 | 21208287.9 |        |
| 4180355 | CHONGQING HAIER REFRIGERATION ELECTRIC APPLIANCE CO., LTD. QINGDAO HAIER REFRIGERATOR CO., LTD HAIER SMART HOME CO., LTD.  | 18/06/2021 | 4180355 | 21843025.4 |        |
| 4180853 | Datalogic IP TECH S.r.l.                                                                                                   | 11/11/2022 | 4180853 | 22206978.3 |        |
| 4180861 | Samsung Electronics Co., Ltd.                                                                                              | 04/08/2021 | 4180861 | 21852457.7 |        |
| 4181279 | Contemporary Amperex Technology (Hong Kong) Limited                                                                        | 30/09/2021 | 4181279 | 21949524.9 |        |
| 4181286 | LG Energy Solution, Ltd.                                                                                                   | 19/01/2022 | 4181286 | 22746146.4 |        |
| 4181470 | ABB Schweiz AG                                                                                                             | 15/11/2021 | 4181470 | 21208205.1 |        |
| 4181508 | Honeywell International Inc.                                                                                               | 04/11/2022 | 4181508 | 22205514.7 |        |
| 4181618 | Samsung Electronics Co., Ltd.                                                                                              | 25/08/2021 | 4181618 | 21872737.8 |        |
| 4181813 | Howmedica Osteonics Corp.                                                                                                  | 14/07/2021 | 4181813 | 21762167.1 |        |
| 4182029 | The United States of America, as represented by the Secretary, Department of Health and Human Services                     | 15/07/2021 | 4182029 | 21752355.4 |        |
| 4182145 | Peridot Print LLC                                                                                                          | 14/07/2020 | 4182145 | 20944931.3 |        |
| 4182520 | Deploy Tech Ltd                                                                                                            | 14/07/2021 | 4182520 | 21748929.3 |        |
| 4182677 | Medtrum Technologies Inc.                                                                                                  | 08/07/2021 | 4182677 | 21842391.1 |        |
| 4183013 | Ouman OY                                                                                                                   | 12/11/2021 | 4183013 | 21814825.2 |        |
| 4183083 | ZTE Corporation                                                                                                            | 09/10/2020 | 4183083 | 20956494.7 |        |
| 4183125 | ams International AG                                                                                                       | 15/06/2021 | 4183125 | 21735190.7 |        |
| 4183279 | Shenzhen Smoore Technology Limited                                                                                         | 11/11/2022 | 4183279 | 22206844.7 |        |
| 4183307 | LG Electronics, Inc.                                                                                                       | 16/11/2022 | 4183307 | 22207730.7 |        |
| 4183538 | Bettcher Industries, Inc.                                                                                                  | 20/11/2018 | 4183538 | 22217241.3 |        |
| 4184034 | Guangdong Jiya Precision Machinery Technology Co., Ltd Midea Group Co., Ltd. GD Midea Air-Conditioning Equipment Co., Ltd. | 20/02/2021 | 4184034 | 21850356.3 |        |
| 4184050 | Johns Manville                                                                                                             | 16/11/2022 | 4184050 | 22207784.4 |        |
| 4184074 | Huawei Technologies Co. Ltd.                                                                                               | 22/07/2021 | 4184074 | 21849813.7 |        |
| 4184081 | Bluefors Oy                                                                                                                | 18/11/2021 | 4184081 | 21209097.1 |        |
| 4184085 | Huawei Digital Power Technologies Co., Ltd.                                                                                | 22/07/2021 | 4184085 | 21847159.7 |        |
| 4184095 | Samsung Electronics Co., Ltd.                                                                                              | 13/06/2008 | 4184095 | 23150686.6 |        |
| 4184296 | Shenzhen Smoore Technology Limited                                                                                         | 09/11/2022 | 4184296 | 22206327.3 |        |
| 4184541 | SENSATA TECHNOLOGIES CHANGZHOU CO., LTD.                                                                                   | 11/11/2022 | 4184541 | 22207062.5 |        |
| 4184685 | MAN Truck & Bus SE                                                                                                         | 10/11/2022 | 4184685 | 22206525.2 | German |
| 4184748 | ABB SCHWEIZ AG                                                                                                             | 22/11/2021 | 4184748 | 21209565.7 |        |
| 4184749 | Huawei Digital Power Technologies Co., Ltd.                                                                                | 29/07/2021 | 4184749 | 21848760.1 |        |
| 4184786 | Kia Corporation HYUNDAI MOTOR COMPANY                                                                                      | 22/07/2022 | 4184786 | 22186369.9 |        |
| 4184850 | Panasonic Intellectual Property Corporation of America                                                                     | 02/05/2019 | 4184850 | 23150906.8 |        |
| 4184867 | Google LLC                                                                                                                 | 05/08/2022 | 4184867 | 22189002.3 |        |
| 4184880 | Google LLC                                                                                                                 | 22/11/2022 | 4184880 | 22208840.3 |        |
| 4184977 | Ruckus IP Holdings LLC                                                                                                     | 16/11/2022 | 4184977 | 22207913.9 |        |
| 4185074 | Honor Device Co., Ltd.                                                                                                     | 27/04/2022 | 4185074 | 22814934.0 |        |
| 4185526 | BAE SYSTEMS plc                                                                                                            | 19/07/2021 | 4185526 | 21746546.7 |        |
| 4185710 | Inguran, LLC                                                                                                               | 23/07/2021 | 4185710 | 21846199.4 |        |
| 4185987 | Carl Zeiss Microscopy GmbH                                                                                                 | 21/07/2021 | 4185987 | 21746748.9 |        |

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| 4186208 | Marvell Asia Pte, Ltd.                                                     | 15/07/2021 | 4186208 | 21846554.0 | French |
| 4186455 | Siemens Healthineers AG                                                    | 29/11/2022 | 4186455 | 22210396.2 |        |
| 4186565 | JPR                                                                        | 25/11/2022 | 4186565 | 22209580.4 |        |
| 4187007 | Qingdao Haier Drum Washing Machine Co., Ltd.<br>Haier Smart Home Co., Ltd. | 27/07/2021 | 4187007 | 21854016.9 |        |
| 4187099 | WILO SE                                                                    | 26/10/2022 | 4187099 | 22203922.4 | German |
| 4187450 | Google LLC                                                                 | 27/11/2019 | 4187450 | 23151929.9 | French |
| 4187603 | Infineon Technologies AG                                                   | 22/11/2022 | 4187603 | 22208826.2 |        |
| 4188654 | Defitech                                                                   | 12/07/2021 | 4188654 | 21749674.4 |        |
| 4188677 | Medtronic, Inc.                                                            | 29/07/2021 | 4188677 | 21758892.0 |        |
| 4188760 | ZF CV Systems Europe BV                                                    | 08/07/2021 | 4188760 | 21743117.0 | German |
| 4189010 | Stratasys, Inc.                                                            | 23/07/2021 | 4189010 | 21751778.8 |        |
| 4189023 | Dow Global Technologies LLC<br>Rohm and Haas Company                       | 31/07/2020 | 4189023 | 20947277.8 |        |
| 4189245 | Copeland LP                                                                | 27/07/2021 | 4189245 | 21850087.4 |        |
| 4189638 | Samsung Electronics Co., Ltd.                                              | 23/11/2021 | 4189638 | 21903689.4 |        |
| 4190127 | Esakoff, Gregory<br>Cunningham, David W.                                   | 16/07/2021 | 4190127 | 21850874.5 |        |
| 4190234 | Honor Device Co., Ltd.                                                     | 27/04/2022 | 4190234 | 22794950.0 |        |
| 4190959 | CHONGQING HAIER WASHING MACHINE CO., LTD.<br>Haier Smart Home Co., Ltd.    | 09/07/2021 | 4190959 | 21859915.7 |        |
| 4191044 | Liebherr Machines Bulle SA                                                 | 07/11/2022 | 4191044 | 22205757.2 | German |
| 4191080 | Lamello AG                                                                 | 13/02/2014 | 4191080 | 22192646.2 | German |
| 4191354 | Gree Electric Appliances, Inc. of Zhuhai                                   | 15/06/2021 | 4191354 | 21850679.8 |        |
| 4191388 | Samsung Electronics Co., Ltd.                                              | 03/09/2021 | 4191388 | 21864729.5 |        |
| 4191487 | Tata Consultancy Services Limited                                          | 08/11/2022 | 4191487 | 22206000.6 |        |
| 4191545 | Samsung Electronics Co., Ltd.                                              | 18/11/2022 | 4191545 | 22208305.7 |        |
| 4191576 | Tencent Technology (Shenzhen) Company Limited                              | 08/11/2021 | 4191576 | 21908894.5 |        |
| 4192080 | Huawei Technologies Co. Ltd.                                               | 28/06/2021 | 4192080 | 21857350.9 |        |
| 4192456 | Universita' degli studi di Brescia<br>UNIVERSITA' DEGLI STUDI DI MILANO    | 04/08/2021 | 4192456 | 21761986.5 |        |
| 4193173 | Samsung Electronics Co., Ltd.                                              | 31/05/2021 | 4193173 | 21858442.3 |        |
| 4193214 | Dolby Laboratories Licensing Corporation                                   | 04/08/2021 | 4193214 | 21756165.3 | French |
| 4193552 | QUALCOMM INCORPORATED                                                      | 30/07/2021 | 4193552 | 21762313.1 |        |
| 4194353 | KY7 Inc.                                                                   | 17/11/2021 | 4194353 | 21955295.7 |        |
| 4194606 | LG Electronics Inc.                                                        | 31/10/2022 | 4194606 | 22204724.3 |        |
| 4194965 | Patek Philippe SA Genève                                                   | 08/12/2021 | 4194965 | 21213271.6 |        |
| 4195103 | SAP SE                                                                     | 02/09/2022 | 4195103 | 22193576.0 |        |
| 4195128 | nChain Licensing AG                                                        | 10/04/2017 | 4195128 | 22208385.9 |        |
| 4195357 | LG Energy Solution, Ltd.                                                   | 23/09/2021 | 4195357 | 21883034.7 |        |
| 4195544 | Huawei Technologies Co. Ltd.                                               | 13/07/2021 | 4195544 | 21857416.8 |        |
| 4195572 | ZTE Corporation                                                            | 18/11/2017 | 4195572 | 22213268.0 |        |
| 4195618 | BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.                             | 09/04/2021 | 4195618 | 23154050.1 |        |
| 4195855 | LG ELECTRONICS INC.                                                        | 03/08/2021 | 4195855 | 21854316.3 |        |
| 4196082 | Beiersdorf AG                                                              | 07/07/2021 | 4196082 | 21745261.4 | German |
| 4196508 | CyPlus GmbH                                                                | 17/08/2021 | 4196508 | 21755509.3 | German |
| 4196526 | Borealis GmbH                                                              | 11/08/2021 | 4196526 | 21762654.8 |        |
| 4196655 | RMD Innovations PTY. Ltd.                                                  | 13/08/2021 | 4196655 | 21854995.4 |        |
| 4196759 | SMT Research Ltd.                                                          | 11/08/2021 | 4196759 | 21855021.8 |        |
| 4196855 | Hilti Aktiengesellschaft                                                   | 03/08/2021 | 4196855 | 21755442.7 |        |
| 4197059 | Telefonaktiebolaget LM Ericsson (publ)                                     | 13/08/2020 | 4197059 | 20949076.2 | German |
| 4197480 | Cornerstone Technology (Shenzhen) Limited                                  | 24/11/2021 | 4197480 | 21917208.7 |        |
| 4197885 | Danfoss Power Solutions, Inc.                                              | 15/12/2021 | 4197885 | 21214597.3 |        |
| 4198269 | Rolls-Royce plc                                                            | 15/11/2022 | 4198269 | 22207391.8 |        |
| 4198275 | Yanmar Holdings Co., Ltd.                                                  | 30/11/2022 | 4198275 | 22210416.8 |        |
| 4198332 | VOLVO TRUCK CORPORATION                                                    | 15/12/2021 | 4198332 | 21214672.4 |        |

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| 4198425 | Samsung Electronics Co., Ltd.                                                                                                                                  | 29/09/2021 | 4198425 | 21886587.1 |        |
| 4198474 | NXP B.V.                                                                                                                                                       | 28/11/2022 | 4198474 | 22209944.2 |        |
| 4198500 | Vienex Corporation                                                                                                                                             | 15/06/2021 | 4198500 | 21855815.3 |        |
| 4198909 | Tencent Technology (Shenzhen) Company Limited                                                                                                                  | 01/11/2021 | 4198909 | 21899793.0 |        |
| 4198977 | Harman International Industries, Incorporated                                                                                                                  | 24/11/2022 | 4198977 | 22209447.6 |        |
| 4199540 | Huawei Technologies Co. Ltd.                                                                                                                                   | 02/09/2021 | 4199540 | 21863652.0 |        |
| 4199789 | HS Products Limited                                                                                                                                            | 18/08/2021 | 4199789 | 21790513.2 |        |
| 4199984 | Koninklijke Philips N.V.                                                                                                                                       | 11/08/2021 | 4199984 | 21765841.8 |        |
| 4200732 | Netscout Systems, Inc.                                                                                                                                         | 13/08/2021 | 4200732 | 21766080.2 |        |
| 4200925 | Carl Freudenberg KG                                                                                                                                            | 04/08/2021 | 4200925 | 21762625.8 | German |
| 4201285 | Alfred Kärcher SE & Co. KG                                                                                                                                     | 14/12/2022 | 4201285 | 22213551.9 | German |
| 4201684 | Ricoh Company, Ltd.                                                                                                                                            | 23/11/2022 | 4201684 | 22209082.1 |        |
| 4201836 | Daio Paper Corporation                                                                                                                                         | 29/10/2021 | 4201836 | 21886376.9 |        |
| 4201879 | SHIMADZU CORPORATION                                                                                                                                           | 06/05/2021 | 4201879 | 21857989.4 |        |
| 4201939 | Cancer Research Technology Limited<br>The Institute of Cancer Research: Royal Cancer Hospital                                                                  | 12/04/2019 | 4201939 | 22211485.2 |        |
| 4202238 | SHANGHAI JIAOTONG UNIVERSITY                                                                                                                                   | 05/11/2022 | 4202238 | 22868450.2 |        |
| 4202350 | Academia Militar<br>UNIVERSIDADE NOVA DE LISBOA                                                                                                                | 23/08/2021 | 4202350 | 21789813.9 |        |
| 4202406 | Lg Chem, Ltd.                                                                                                                                                  | 16/11/2021 | 4202406 | 21900868.7 |        |
| 4202613 | BOE Technology Group Co., Ltd.<br>BEIJING BOE DISPLAY TECHNOLOGY CO., LTD.                                                                                     | 28/05/2021 | 4202613 | 21942369.6 |        |
| 4202681 | Schneider Electric Industries SAS                                                                                                                              | 12/10/2016 | 4202681 | 23157545.7 |        |
| 4202700 | Intel Corporation                                                                                                                                              | 14/11/2022 | 4202700 | 22207109.4 |        |
| 4202820 | JVCKENWOOD Corporation                                                                                                                                         | 15/09/2021 | 4202820 | 21872284.1 |        |
| 4202833 | HERE Global B.V.                                                                                                                                               | 22/12/2022 | 4202833 | 22216069.9 |        |
| 4202864 | GM Cruise Holdings LLC                                                                                                                                         | 29/11/2022 | 4202864 | 22210344.2 |        |
| 4203848 | Boudjema-Rassman Partnership<br>Boudjema, Pascal<br>Rassman, William R.                                                                                        | 27/08/2021 | 4203848 | 21862819.6 |        |
| 4203878 | Alcon Inc.                                                                                                                                                     | 19/08/2021 | 4203878 | 21762801.5 |        |
| 4204181 | Siemens Aktiengesellschaft                                                                                                                                     | 04/11/2020 | 4204181 | 20804474.3 | German |
| 4204292 | Brown Jr, Douglas Gilman                                                                                                                                       | 20/09/2021 | 4204292 | 21798832.8 |        |
| 4204360 | Wacker Chemie AG                                                                                                                                               | 30/11/2020 | 4204360 | 20820064.2 | German |
| 4204585 | TECHNION RESEARCH & DEVELOPMENT FOUNDATION LIMITED                                                                                                             | 25/08/2021 | 4204585 | 21860757.0 |        |
| 4204998 | Google LLC                                                                                                                                                     | 11/11/2021 | 4204998 | 21820763.7 |        |
| 4205090 | ASSA ABLOY AB                                                                                                                                                  | 25/08/2021 | 4205090 | 21770140.8 |        |
| 4205608 | DAITO Entertainment, Inc.                                                                                                                                      | 24/10/2022 | 4205608 | 22854767.5 |        |
| 4205633 | Lensar, Inc.                                                                                                                                                   | 14/10/2011 | 4205633 | 22212169.1 |        |
| 4206074 | Autel Robotics Co., Ltd.                                                                                                                                       | 31/08/2021 | 4206074 | 21879138.2 |        |
| 4206095 | Hai Robotics Co., Ltd.                                                                                                                                         | 16/09/2021 | 4206095 | 21874264.1 |        |
| 4206211 | Anhui Jinhe Industrial Co., Ltd.                                                                                                                               | 30/09/2020 | 4206211 | 20955646.3 |        |
| 4206475 | LG Display Co., Ltd.                                                                                                                                           | 23/11/2022 | 4206475 | 22209125.8 |        |
| 4206499 | Eagle Industry Co., Ltd.                                                                                                                                       | 19/08/2021 | 4206499 | 21861384.2 |        |
| 4206556 | Qingdao Haier New Energy Appliance Co., Ltd.<br>Qingdao Economic and Technological Development Zone Haier Water Heater Co., Ltd.<br>Haier Smart Home Co., Ltd. | 22/07/2021 | 4206556 | 21859994.2 |        |
| 4206640 | Sakura Finetek U.S.A., Inc.                                                                                                                                    | 14/11/2017 | 4206640 | 23157480.7 |        |
| 4206859 | LG Display Co., Ltd.                                                                                                                                           | 03/11/2022 | 4206859 | 22205262.3 |        |
| 4206879 | LG Display Co., Ltd.                                                                                                                                           | 04/11/2022 | 4206879 | 22205585.7 |        |
| 4207009 | Samsung Electronics Co., Ltd.                                                                                                                                  | 29/11/2021 | 4207009 | 21911284.4 |        |
| 4207110 | Malikie Innovations Limited                                                                                                                                    | 11/01/2017 | 4207110 | 23158184.4 |        |
| 4207140 | TERUMO Kabushiki Kaisha                                                                                                                                        | 31/05/2019 | 4207140 | 23158109.1 |        |

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| 4207172 | LG Display Co., Ltd.                                     | 21/11/2022 | 4207172 | 22208555.7 | French |
| 4207179 | LG Display Co., Ltd.                                     | 03/11/2022 | 4207179 | 22205270.6 |        |
| 4207472 | Automotive Cells Company SE                              | 29/12/2021 | 4207472 | 21306954.5 |        |
| 4207521 | Panduit Corp.                                            | 28/11/2022 | 4207521 | 22209883.2 |        |
| 4207688 | Tencent Technology (Shenzhen) Company Limited            | 15/11/2021 | 4207688 | 21913524.1 |        |
| 4207783 | Beijing Zitiao Network Technology Co., Ltd.              | 15/12/2021 | 4207783 | 21905765.0 |        |
| 4208267 | Gieral B.V.                                              | 23/07/2021 | 4208267 | 21749728.8 |        |
| 4209853 | Tencent Technology (Shenzhen) Company Limited            | 01/11/2021 | 4209853 | 21893727.4 |        |
| 4210106 | Samsung Display Co., Ltd.                                | 29/03/2019 | 4210106 | 23152947.0 |        |
| 4210380 | Samsung Electronics Co., Ltd.                            | 05/06/2018 | 4210380 | 23157844.4 |        |
| 4210931 | Alcon Inc.                                               | 13/09/2021 | 4210931 | 21785986.7 | German |
| 4211055 | SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA   | 14/09/2021 | 4211055 | 21830753.6 |        |
| 4211714 | KLA Corporation                                          | 01/11/2021 | 4211714 | 21892579.0 |        |
| 4212031 | Shenzhen Eigate Technology Co., Ltd.                     | 05/11/2021 | 4212031 | 21863759.3 |        |
| 4212064 | Ningbo Healthkey Motion Technology Co., Ltd              | 31/12/2021 | 4212064 | 21929989.8 |        |
| 4212613 | Univercells Technologies SA                              | 09/11/2017 | 4212613 | 23157735.4 |        |
| 4212629 | 10X Genomics, Inc.                                       | 16/11/2018 | 4212629 | 22186351.7 |        |
| 4212686 | Tie Down, Inc.                                           | 20/12/2022 | 4212686 | 22215180.5 |        |
| 4212770 | Faurecia Automotive Interior System (Shanghai) Co., Ltd. | 07/11/2022 | 4212770 | 22205826.5 |        |
| 4213270 | LG Energy Solution, Ltd.                                 | 28/09/2022 | 4213270 | 22876816.4 | German |
| 4213335 | LG Energy Solution, Ltd.                                 | 08/08/2022 | 4213335 | 22856132.0 |        |
| 4213678 | NIKE Innovate C.V.                                       | 15/09/2021 | 4213678 | 21790704.7 |        |
| 4213974 | Technische Universität Hamburg                           | 21/09/2021 | 4213974 | 21778484.2 |        |
| 4214485 | P-CHIP IP HOLDINGS INC.                                  | 02/09/2021 | 4214485 | 21869982.5 |        |
| 4214627 | International Business Machines Corporation              | 15/09/2021 | 4214627 | 21778005.5 |        |
| 4214771 | Samsung Display Co., Ltd.                                | 17/09/2021 | 4214771 | 21785779.6 |        |
| 4214776 | Samsung Display Co., Ltd.                                | 17/09/2021 | 4214776 | 21785784.6 |        |
| 4214856 | Telefonaktiebolaget LM Ericsson (publ)                   | 16/09/2020 | 4214856 | 20775597.6 |        |
| 4214987 | ZTE Corporation                                          | 22/10/2020 | 4214987 | 20958171.9 |        |
| 4215243 | Siemens Healthineers AG                                  | 24/01/2022 | 4215243 | 22152982.9 | German |
| 4215421 | DENSO CORPORATION                                        | 06/09/2021 | 4215421 | 21869232.5 |        |
|         | TOYOTA JIDOSHA KABUSHIKI KAISHA                          |            |         |            |        |
|         | JTEKT Corporation                                        |            |         |            |        |
| 4215715 | BAUER Spezialtiefbau GmbH                                | 21/01/2022 | 4215715 | 22152662.7 |        |
| 4215908 | E+E ELEKTRONIK GES.M.B.H.                                | 19/01/2022 | 4215908 | 22152144.6 |        |
| 4216185 | Honeywell International Inc.                             | 16/01/2023 | 4216185 | 23151785.5 |        |
| 4216370 | Samsung Electronics Co., Ltd.                            | 12/11/2021 | 4216370 | 21892372.0 |        |
| 4216674 | Helvar Oy Ab                                             | 20/01/2022 | 4216674 | 22152419.2 |        |
| 4216771 | 10 X Innovation GmbH & Co. KG                            | 02/09/2021 | 4216771 | 21773325.2 | German |
| 4217131 | SAFRAN AIRCRAFT ENGINES                                  | 22/09/2021 | 4217131 | 21793982.6 |        |
| 4217409 | Covestro Deutschland AG                                  | 21/09/2021 | 4217409 | 21777546.9 |        |
| 4217896 | Salesforce, Inc.                                         | 08/09/2021 | 4217896 | 21778687.0 |        |
| 4218066 | BASF SE                                                  | 16/09/2021 | 4218066 | 21778029.5 |        |
| 4218564 | Lululemon Athletica Canada Inc.                          | 16/09/2019 | 4218564 | 22213513.9 |        |
| 4218890 | Covidien LP                                              | 26/07/2013 | 4218890 | 23164955.9 |        |
| 4219344 | Zhejiang Libiao Robots Co., Ltd.                         | 08/07/2021 | 4219344 | 21918874.5 |        |
| 4219405 | LG Energy Solution, Ltd.                                 | 14/10/2021 | 4219405 | 21880521.6 |        |
| 4219833 | Joseph Vögele AG                                         | 31/01/2022 | 4219833 | 22154287.1 | German |
| 4219846 | B/E Aerospace, Inc.                                      | 09/08/2022 | 4219846 | 22189408.2 |        |
| 4219970 | Miba Gleitlager Austria GmbH                             | 28/05/2020 | 4219970 | 23163237.3 |        |
| 4220087 | Mapsted Corp.                                            | 31/01/2023 | 4220087 | 23154144.2 |        |
| 4220201 | Huawei Technologies Co. Ltd.                             | 23/10/2020 | 4220201 | 20958350.9 |        |

|         |                                                                      |            |         |            |        |
|---------|----------------------------------------------------------------------|------------|---------|------------|--------|
| 4220564 | Ventana Medical Systems, Inc.                                        | 25/08/2016 | 4220564 | 22214786.0 |        |
|         | Providence Health & Services - Oregon                                |            |         |            |        |
| 4220595 | SNCF Voyageurs                                                       | 24/01/2023 | 4220595 | 23152989.2 | French |
| 4220610 | BOE Technology Group Co., Ltd.                                       | 30/11/2020 | 4220610 | 20963081.3 |        |
|         | Chengdu BOE Optoelectronics Technology Co., Ltd.                     |            |         |            |        |
| 4220821 | Suzuki Motor Corporation                                             | 22/11/2022 | 4220821 | 22208939.3 |        |
| 4221153 | Huawei Cloud Computing Technologies Co., Ltd.                        | 27/09/2021 | 4221153 | 21874408.4 |        |
| 4221260 | Goertek Inc                                                          | 25/08/2021 | 4221260 | 21871189.3 |        |
| 4221312 | Beijing Xiaomi Mobile Software Co., Ltd.                             | 04/11/2016 | 4221312 | 23165374.2 |        |
| 4221828 | G Life                                                               | 01/10/2021 | 4221828 | 21793860.4 |        |
| 4221963 | TOPPAN Packaging Americas Holdings, Inc.                             | 09/11/2021 | 4221963 | 21890286.4 |        |
| 4222043 | VOLKSWAGEN AKTIENGESELLSCHAFT                                        | 02/09/2021 | 4222043 | 21773332.8 | German |
| 4222150 | BeOne Medicines I GmbH                                               | 29/09/2021 | 4222150 | 21874503.2 |        |
| 4222152 | GILEAD SCIENCES, INC.                                                | 29/09/2021 | 4222152 | 21801304.3 |        |
| 4222325 | Hilti Aktiengesellschaft                                             | 15/09/2021 | 4222325 | 21777514.7 | German |
| 4222483 | KLA Corporation                                                      | 21/07/2021 | 4222483 | 21853664.7 |        |
| 4222692 | PAIGE.AI, Inc.                                                       | 09/09/2021 | 4222692 | 21790330.1 |        |
| 4222944 | Snap Inc.                                                            | 23/09/2021 | 4222944 | 21791197.3 |        |
| 4223177 | Shenzhen Ulike Smart Electronics Co., Ltd.                           | 23/11/2019 | 4223177 | 23176025.7 |        |
| 4223616 | Aptiv Technologies AG                                                | 02/02/2022 | 4223616 | 22154830.8 |        |
| 4223703 | Utsunomiya Kogyo Co., Ltd.                                           | 09/07/2021 | 4223703 | 21874849.9 |        |
| 4223999 | Rolls-Royce plc                                                      | 10/01/2023 | 4223999 | 23150897.9 |        |
| 4224026 | NSK Ltd.                                                             | 24/09/2021 | 4224026 | 21875466.1 |        |
| 4224150 | LG Energy Solution, Ltd.                                             | 05/09/2022 | 4224150 | 22870189.2 |        |
| 4224159 | Accenture Global Solutions Limited                                   | 31/08/2022 | 4224159 | 22193072.0 |        |
| 4224184 | LG INNOTEK CO., LTD.                                                 | 08/08/2017 | 4224184 | 23166283.4 |        |
| 4224210 | Huawei Technologies Co. Ltd.                                         | 06/08/2021 | 4224210 | 21881654.4 |        |
| 4224528 | Samsung Display Co., Ltd.                                            | 28/11/2022 | 4224528 | 22210044.8 |        |
| 4224544 | Contemporary Amperex Technology (Hong Kong) Limited                  | 28/09/2021 | 4224544 | 21958694.8 |        |
| 4224567 | LG Energy Solution, Ltd.                                             | 11/10/2022 | 4224567 | 22879670.2 |        |
| 4224775 | LG Electronics Inc.                                                  | 09/11/2017 | 4224775 | 23181694.3 |        |
| 4224897 | Yamaha Hatsudoki Kabushiki Kaisha                                    | 10/11/2022 | 4224897 | 22206639.1 |        |
| 4225134 | ASAHI INTECC CO., LTD.                                               | 12/10/2021 | 4225134 | 21805813.9 |        |
|         | Pathways Medical Corporation                                         |            |         |            |        |
| 4225222 | Arthrex, Inc.                                                        | 06/10/2021 | 4225222 | 21802079.0 |        |
| 4225224 | Ottobock SE & Co. KGaA                                               | 04/10/2021 | 4225224 | 21786490.9 | German |
| 4225424 | NMES Group AB                                                        | 11/10/2021 | 4225424 | 21798294.1 |        |
| 4225455 | Barenghi, Matteo                                                     | 12/10/2021 | 4225455 | 21802802.5 |        |
| 4225558 | Stratasys Ltd.                                                       | 11/10/2021 | 4225558 | 21806829.4 |        |
| 4225600 | VALEO SYSTEMES THERMIQUES                                            | 27/09/2021 | 4225600 | 21783268.2 | French |
| 4227212 | Airbus Operations Limited                                            | 31/01/2023 | 4227212 | 23154209.3 |        |
| 4227800 | Siemens Aktiengesellschaft                                           | 14/02/2022 | 4227800 | 22156541.9 | German |
| 4227861 | NEC Corporation                                                      | 23/11/2022 | 4227861 | 22209161.3 |        |
| 4227915 | dormakaba Deutschland GmbH                                           | 09/02/2022 | 4227915 | 22155949.5 | German |
| 4227936 | Yamaha Corporation                                                   | 12/11/2020 | 4227936 | 23180700.9 |        |
| 4228262 | Beijing Dajia Internet Information Technology Co., Ltd.              | 08/10/2019 | 4228262 | 23179392.8 |        |
| 4228390 | Topcon Positioning Systems, Inc.                                     | 13/08/2021 | 4228390 | 21773994.5 |        |
| 4228489 | Covidien LP                                                          | 20/09/2021 | 4228489 | 21790015.8 |        |
| 4228844 | Gleason Cutting Tools GmbH                                           | 15/10/2021 | 4228844 | 21797974.9 | German |
| 4228914 | Ralf Adams B.V.                                                      | 09/08/2021 | 4228914 | 21755093.8 |        |
|         | Jan Wijnans B.V.                                                     |            |         |            |        |
| 4228993 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 15/10/2021 | 4228993 | 21794797.7 | German |
| 4229300 | KSB SE & Co. KGaA                                                    | 14/10/2021 | 4229300 | 21793905.7 | German |
| 4229726 | Robert Bosch GmbH                                                    | 07/10/2021 | 4229726 | 21789674.5 | German |
| 4230028 | Rouge Engineered Designs                                             | 14/02/2023 | 4230028 | 23156663.9 | French |



|         |                                                                                         |            |         |            |        |
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| 4230522 | Goodrich Corporation                                                                    | 15/02/2023 | 4230522 | 23156745.4 | German |
| 4230932 | Liebherr-Hausgeräte Ochsenhausen GmbH                                                   | 20/01/2023 | 4230932 | 23152559.3 |        |
| 4231367 | Friedrich-Alexander-Universität Erlangen-Nürnberg, in Vertretung des Freistaates Bayern | 17/02/2022 | 4231367 | 22157162.3 |        |
| 4231418 | LG Energy Solution, Ltd.                                                                | 13/10/2021 | 4231418 | 21880519.0 | German |
| 4231467 | Vivo Mobile Communication Co., Ltd.                                                     | 24/11/2021 | 4231467 | 21897004.4 |        |
| 4231526 | MediaTek Inc.                                                                           | 25/03/2022 | 4231526 | 23170881.9 |        |
| 4231606 | Mindwareworks Co.,Ltd.                                                                  | 28/03/2022 | 4231606 | 22164649.0 |        |
| 4232519 | Sun Chemical Corporation                                                                | 19/11/2021 | 4232519 | 21827304.3 |        |
| 4232698 | Siemens Energy Global GmbH & Co. KG                                                     | 26/11/2021 | 4232698 | 21824500.9 |        |
| 4232774 | LUOSSAVAARA KIIRUNAVAARA AB                                                             | 20/10/2021 | 4232774 | 21883414.1 |        |
| 4233015 | PAIGE.AI, Inc.                                                                          | 19/10/2021 | 4233015 | 21807378.1 |        |
| 4233526 | Spiro, Daniel S.                                                                        | 07/05/2018 | 4233526 | 23163789.3 |        |
| 4233535 | Akvafuture AS                                                                           | 01/03/2017 | 4233535 | 23179511.3 |        |
| 4233536 | Minerva Biotechnologies Corporation                                                     | 12/08/2014 | 4233536 | 23160947.0 |        |
| 4233954 | Juul Labs, Inc.                                                                         | 04/08/2017 | 4233954 | 23180394.1 |        |
| 4234195 | LG Energy Solution, Ltd.                                                                | 19/10/2021 | 4234195 | 21883182.4 |        |
| 4235009 | ASC Engineered Solutions, LLC                                                           | 27/07/2018 | 4235009 | 23175188.4 |        |
| 4235013 | Airbus SAS                                                                              | 28/02/2022 | 4235013 | 22159269.4 |        |
| 4235066 | LG Electronics Inc.                                                                     | 09/06/2017 | 4235066 | 23180905.4 |        |
| 4235518 | FUJITSU LIMITED                                                                         | 11/11/2022 | 4235518 | 22206928.8 |        |
| 4235768 | Viasat, Inc.                                                                            | 11/08/2020 | 4235768 | 23174399.8 |        |
| 4235887 | LG Energy Solution, Ltd.                                                                | 07/10/2022 | 4235887 | 22878961.6 |        |
| 4236338 | LG INNOTEK CO., LTD.                                                                    | 17/05/2018 | 4236338 | 23180574.8 |        |
| 4236541 | Huawei Technologies Co. Ltd.                                                            | 12/11/2015 | 4236541 | 23163874.3 |        |
| 4236546 | QUALCOMM Incorporated                                                                   | 24/01/2018 | 4236546 | 23176256.8 |        |
| 4236886 | Smith&Nephew, Inc.                                                                      | 06/10/2021 | 4236886 | 21814946.6 |        |
|         | Smith & Nephew Orthopaedics AG                                                          |            |         |            |        |
|         | Smith & Nephew Asia Pacific Pte. Limited                                                |            |         |            |        |
| 4237214 | Albrecht Bäumer GmbH & Co. KG                                                           | 22/02/2022 | 4237214 | 22707152.9 | German |
|         | Spezialmaschinenfabrik                                                                  |            |         |            |        |
| 4237300 | Zoxx, Inc.                                                                              | 27/10/2021 | 4237300 | 21887394.1 | German |
| 4237330 | Wisk Aero LLC                                                                           | 27/10/2021 | 4237330 | 21887460.0 |        |
| 4237810 | Robert Bosch GmbH                                                                       | 25/10/2021 | 4237810 | 21801054.4 |        |
| 4237904 | Luxottica S.r.l.                                                                        | 02/11/2021 | 4237904 | 21811476.7 |        |
| 4238037 | Access Todo LLC                                                                         | 29/10/2021 | 4238037 | 21887595.3 |        |
| 4238468 | LG Electronics Inc.                                                                     | 29/10/2021 | 4238468 | 21886884.2 |        |
| 4238518 | iAccess MedTec GmbH                                                                     | 02/03/2022 | 4238518 | 22159703.2 |        |
| 4238610 | Universität der Bundeswehr München                                                      | 03/03/2022 | 4238610 | 22159975.6 |        |
|         | Technische Universität München                                                          |            |         |            |        |
|         | Ludwig-Maximilians-Universität München                                                  |            |         |            |        |
| 4238706 | KAWASAKI JUKOGYO KABUSHIKI KAISHA                                                       | 05/10/2021 | 4238706 | 21885838.9 | German |
| 4238911 | Il Pharma Packaging Co., Ltd.                                                           | 15/11/2021 | 4238911 | 21894600.2 |        |
| 4239386 | Sterlite Technologies Limited                                                           | 09/02/2023 | 4239386 | 23155783.6 |        |
| 4239828 | Contemporary Amperex Technology (Hong Kong) Limited                                     | 18/09/2021 | 4239828 | 21957165.0 |        |
| 4239913 | Comcast Cable Communications, LLC                                                       | 01/03/2023 | 4239913 | 23159467.2 |        |
| 4240187 | JT International S.A.                                                                   | 04/11/2021 | 4240187 | 21802362.0 |        |
| 4240188 | JT International S.A.                                                                   | 05/11/2021 | 4240188 | 21805515.0 |        |
| 4240205 | LEONARDO S.r.l.                                                                         | 29/10/2021 | 4240205 | 21807260.1 |        |
| 4240364 | Rafarm UK Limited                                                                       | 08/11/2021 | 4240364 | 21810296.0 |        |
|         | NTC s.r.l.                                                                              |            |         |            |        |
| 4240870 | Illumina, Inc.                                                                          | 03/11/2021 | 4240870 | 21889965.6 |        |
| 4240975 | Pierburg Pump Technology GmbH                                                           | 09/11/2020 | 4240975 | 20804494.1 |        |
| 4240984 | ABB SCHWEIZ AG                                                                          | 04/11/2020 | 4240984 | 20801247.6 |        |
| 4241009 | Valsir S.p.A. A Socio Unico                                                             | 03/11/2021 | 4241009 | 21816520.7 |        |
| 4241016 | Saint-Gobain Sekurit France                                                             | 28/10/2021 | 4241016 | 21802629.2 |        |
| 4241140 | Techtronic Cordless GP                                                                  | 05/11/2020 | 4241140 | 20960312.5 |        |
| 4241271 | QUALCOMM INCORPORATED                                                                   | 18/10/2021 | 4241271 | 21807369.0 |        |
| 4241429 | Google LLC                                                                              | 04/11/2021 | 4241429 | 21811204.3 |        |

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| 4241959 | Meusburger Georg GmbH & Co. KG                                                    | 24/01/2023 | 4241959 | 23153004.9 | German |
| 4242675 | Shanghai Autoflight Co., Ltd.                                                     | 07/03/2023 | 4242675 | 23160429.9 |        |
| 4242714 | Eagle Technology, LLC                                                             | 28/11/2022 | 4242714 | 23182663.7 |        |
| 4242884 | Commissariat à l'Energie Atomique et aux<br>Energies Alternatives                 | 27/02/2023 | 4242884 | 23158814.6 | French |
| 4243277 | HYUNDAI MOTOR COMPANY<br>Kia Corporation                                          | 17/11/2022 | 4243277 | 22208043.4 |        |
| 4243649 | Colgate-Palmolive Company                                                         | 01/11/2021 | 4243649 | 21815037.3 |        |
| 4243688 | Cucchiarelli, Cristina                                                            | 15/11/2021 | 4243688 | 21807289.0 |        |
| 4243765 | Unilever Global IP Limited                                                        | 08/11/2021 | 4243765 | 21802375.2 |        |
| 4243779 | PHARMAMATCH B.V.                                                                  | 16/11/2021 | 4243779 | 21865370.7 |        |
| 4243804 | ScandiBio Therapeutics AB                                                         | 16/11/2021 | 4243804 | 21810026.1 |        |
| 4244018 | Schneider GmbH & Co. KG                                                           | 09/11/2021 | 4244018 | 21830945.8 | German |
| 4244220 | AskAt Inc.                                                                        | 11/11/2021 | 4244220 | 21891958.7 |        |
| 4244524 | Chart Inc.                                                                        | 11/11/2021 | 4244524 | 21820764.5 |        |
| 4244525 | Cryoshelter LH2 GmbH<br>Cryoshelter BioLNG GmbH                                   | 08/11/2021 | 4244525 | 21810271.3 | German |
| 4244572 | Siloton Limited                                                                   | 15/11/2021 | 4244572 | 21827404.1 |        |
| 4244703 | Google LLC                                                                        | 16/11/2020 | 4244703 | 20824876.5 |        |
| 4244980 | Qorvo US, Inc.                                                                    | 10/09/2021 | 4244980 | 21789913.7 |        |
| 4245227 | Bolder Surgical, LLC                                                              | 06/05/2016 | 4245227 | 23156665.4 |        |
| 4245391 | Universal City Studios LLC                                                        | 16/05/2019 | 4245391 | 23190676.9 |        |
| 4245453 | Nippon Light Metal Co., Ltd.                                                      | 01/11/2021 | 4245453 | 21900344.9 |        |
| 4245454 | Nippon Light Metal Co., Ltd.                                                      | 01/11/2021 | 4245454 | 21900345.6 |        |
| 4245917 | BauPoly AG                                                                        | 14/03/2022 | 4245917 | 22161890.3 | German |
| 4245931 | Geberit International AG                                                          | 14/03/2022 | 4245931 | 22161928.1 | German |
| 4246019 | JFE Steel Corporation                                                             | 02/11/2021 | 4246019 | 21891724.3 |        |
| 4246156 | Shanghai Vanchip Technologies Co., Ltd.                                           | 16/11/2021 | 4246156 | 21891276.4 |        |
| 4246221 | MIANYANG HKC OPTOELECTRONICS<br>TECHNOLOGY CO., LTD<br>HKC Corporation Limited    | 29/11/2022 | 4246221 | 22902456.7 |        |
| 4246288 | Electronics and Telecommunications<br>Research Institute                          | 17/02/2023 | 4246288 | 23157227.2 |        |
| 4246425 | Beijing Zitiao Network Technology Co.,<br>Ltd.                                    | 12/11/2021 | 4246425 | 21891210.3 |        |
| 4246433 | JVCKENWOOD Corporation                                                            | 07/06/2022 | 4246433 | 22872472.0 |        |
| 4246813 | MediaTek Inc.                                                                     | 02/03/2023 | 4246813 | 23159788.1 |        |
| 4246964 | Axis AB                                                                           | 14/03/2022 | 4246964 | 22161759.0 |        |
| 4247217 | Colgate-Palmolive Company                                                         | 01/11/2021 | 4247217 | 21815039.9 |        |
| 4247669 | Mercedes-Benz Group AG                                                            | 15/11/2021 | 4247669 | 21815406.0 | German |
| 4247670 | DAF Trucks N.V.                                                                   | 17/11/2021 | 4247670 | 21810758.9 |        |
| 4247687 | Volkswagen Group of America<br>Investments, LLC                                   | 02/11/2021 | 4247687 | 21895341.2 |        |
| 4248017 | Next Foundation GmbH                                                              | 15/11/2021 | 4248017 | 21819730.9 | German |
| 4248033 | Unilin, BV                                                                        | 09/11/2021 | 4248033 | 21806403.8 |        |
| 4248053 | Electrical Subsea & Drilling AS                                                   | 17/11/2021 | 4248053 | 21895204.2 |        |
| 4248148 | Grasl Pneumatic - Mechanik Gesellschaft<br>m.b.H.                                 | 17/11/2021 | 4248148 | 21810914.8 | German |
| 4248184 | Geffe, Markus                                                                     | 18/11/2021 | 4248184 | 21820468.3 | German |
| 4248373 | President and Fellows of Harvard College<br>Massachusetts Institute Of Technology | 19/11/2021 | 4248373 | 21895923.7 |        |
| 4248526 | Phoenix Contact GmbH & Co. KG                                                     | 09/11/2021 | 4248526 | 21810318.2 | German |
| 4249268 | SATO Corporation                                                                  | 10/11/2021 | 4249268 | 21894537.6 |        |
| 4249293 | BRIDGESTONE CORPORATION                                                           | 30/11/2021 | 4249293 | 21921227.1 |        |
| 4249516 | DAIKIN INDUSTRIES, LTD.                                                           | 19/11/2021 | 4249516 | 21894765.3 |        |
| 4249524 | DAIKIN INDUSTRIES, LTD.                                                           | 19/11/2021 | 4249524 | 21894759.6 |        |
| 4249680 | Wirtgen GmbH                                                                      | 10/03/2023 | 4249680 | 23161343.1 | German |
| 4249906 | ARKRAY, Inc.                                                                      | 20/03/2023 | 4249906 | 23162854.6 |        |
| 4250288 | Samsung Electronics Co., Ltd.                                                     | 22/11/2019 | 4250288 | 23191524.0 |        |
| 4250738 | Snap-Aid Patents Ltd.                                                             | 19/04/2015 | 4250738 | 23178609.6 |        |
| 4250886 | CSIC Shanghai Marine Energy Saving<br>Technology Development Co., Ltd.            | 12/03/2021 | 4250886 | 21893235.8 |        |

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| 4250972 | KT&G Corporation                                                                                                                                 | 22/11/2021 | 4250972 | 21898525.7 |        |
| 4250973 | KT&G Corporation                                                                                                                                 | 22/11/2021 | 4250973 | 21898526.5 |        |
| 4251001 | IT LUGGAGE LIMITED                                                                                                                               | 16/11/2021 | 4251001 | 21815956.4 |        |
| 4251023 | Steelco S.p.A.                                                                                                                                   | 25/11/2021 | 4251023 | 21839691.9 |        |
| 4251380 | Clutterbot Inc.                                                                                                                                  | 30/11/2021 | 4251380 | 21899213.9 |        |
| 4251779 | Constellium Rolled Products Singen GmbH & Co.KG                                                                                                  | 19/11/2021 | 4251779 | 21806772.6 | French |
| 4251899 | Bendix Commercial Vehicle Systems, LLC                                                                                                           | 10/11/2021 | 4251899 | 21823414.4 |        |
| 4251933 | ATLAS COPCO AIRPOWER, naamloze vennootschap                                                                                                      | 19/11/2021 | 4251933 | 21814912.8 |        |
| 4251950 | Hilti Aktiengesellschaft                                                                                                                         | 10/11/2021 | 4251950 | 21810007.1 |        |
| 4251991 | Boeker, Peter                                                                                                                                    | 18/11/2021 | 4251991 | 21816380.6 | German |
| 4252013 | Mercedes-Benz Group AG                                                                                                                           | 02/11/2021 | 4252013 | 21805479.9 | German |
| 4252328 | FISSAGGI MODERNI E TECNICHE S.P.A. IN SIGLA FI.MO.TEC. S.P.A.                                                                                    | 26/11/2021 | 4252328 | 21824026.5 |        |
| 4252438 | Fort Robotics, Inc.                                                                                                                              | 30/11/2021 | 4252438 | 21899246.9 |        |
| 4252673 | Hologic, Inc.                                                                                                                                    | 25/11/2020 | 4252673 | 23186924.9 |        |
| 4252738 | Société des Produits Nestlé S.A.                                                                                                                 | 22/03/2016 | 4252738 | 23188412.3 |        |
| 4252805 | Nippharma Co., Ltd.                                                                                                                              | 05/11/2021 | 4252805 | 21897680.1 |        |
| 4252810 | New Ventures GmbH<br>Raumedic AG                                                                                                                 | 21/03/2023 | 4252810 | 23163184.7 | German |
| 4253093 | Sumitomo Rubber Industries, Ltd.                                                                                                                 | 24/11/2021 | 4253093 | 21915012.5 |        |
| 4253729 | Hamilton Sundstrand Corporation                                                                                                                  | 30/03/2023 | 4253729 | 23165703.2 |        |
| 4254376 | Airbus Operations GmbH                                                                                                                           | 31/03/2022 | 4254376 | 22166090.5 |        |
| 4254610 | Contemporary Amperex Technology (Hong Kong) Limited                                                                                              | 22/10/2021 | 4254610 | 21961109.2 |        |
| 4254697 | Panduit Corp.                                                                                                                                    | 16/03/2023 | 4254697 | 23162269.7 |        |
| 4255327 | Pyles, Stephen T.                                                                                                                                | 07/12/2021 | 4255327 | 21904261.1 |        |
| 4255563 | Pharma Cinq, LLC                                                                                                                                 | 30/11/2021 | 4255563 | 21901291.1 |        |
| 4255783 | thyssenkrupp Presta AG<br>thyssenkrupp AG                                                                                                        | 29/11/2021 | 4255783 | 21831218.9 | German |
| 4255876 | BASF SE                                                                                                                                          | 01/12/2021 | 4255876 | 21816487.9 |        |
| 4255953 | Parker-Hannifin Corporation                                                                                                                      | 15/11/2021 | 4255953 | 21824171.9 |        |
| 4256149 | Unilin, BV                                                                                                                                       | 17/11/2021 | 4256149 | 21815678.4 |        |
| 4256403 | Esco-Graphics Imaging GmbH                                                                                                                       | 30/11/2021 | 4256403 | 21820593.8 |        |
| 4256660 | Huawei Technologies Co. Ltd.                                                                                                                     | 19/04/2021 | 4256660 | 21720428.8 |        |
| 4257193 | Sanofi                                                                                                                                           | 13/04/2017 | 4257193 | 23179697.0 |        |
| 4257202 | Trustees of Tufts College<br>University of Pittsburgh - Of the Commonwealth System of Higher Education<br>Wake Forest University Health Services | 09/11/2012 | 4257202 | 23168344.2 |        |
| 4257308 | McElroy Manufacturing, Inc.                                                                                                                      | 11/09/2018 | 4257308 | 23193632.9 |        |
| 4257523 | Kimboshi Inc.                                                                                                                                    | 20/06/2022 | 4257523 | 22837461.7 |        |
| 4257546 | "Alventa" Spolka Akcyjna                                                                                                                         | 08/04/2022 | 4257546 | 22461536.9 |        |
| 4257813 | Hamilton Sundstrand Corporation                                                                                                                  | 03/02/2023 | 4257813 | 23154914.8 |        |
| 4257975 | Siemens Healthcare Diagnostics Inc.                                                                                                              | 08/06/2015 | 4257975 | 23183940.8 |        |
| 4258150 | MediaTek Inc.                                                                                                                                    | 31/03/2023 | 4258150 | 23165931.9 |        |
| 4259111 | Artelo Biosciences Limited                                                                                                                       | 07/12/2021 | 4259111 | 21827629.3 |        |
| 4259417 | PPG Advanced Surface Technologies, LLC                                                                                                           | 26/11/2021 | 4259417 | 21820527.6 | German |
| 4259921 | Caterpillar Inc.                                                                                                                                 | 18/11/2021 | 4259921 | 21827460.3 |        |
| 4260002 | COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN                                                                                                   | 26/11/2021 | 4260002 | 21830455.8 | French |
| 4260616 | Nokia Technologies Oy                                                                                                                            | 18/11/2021 | 4260616 | 21815985.3 |        |
| 4260891 | Medcaptain Medical Technology Co., Ltd.                                                                                                          | 28/01/2021 | 4260891 | 21921808.8 |        |
| 4261135 | AIRBUS HELICOPTERS                                                                                                                               | 10/03/2023 | 4261135 | 23161241.7 | French |
| 4261471 | GD Midea Heating & Ventilating Equipment Co., Ltd.<br>Midea Group Co., Ltd.                                                                      | 07/09/2021 | 4261471 | 21918938.8 |        |
| 4261487 | HAIER Germany GmbH                                                                                                                               | 13/04/2022 | 4261487 | 22168067.1 |        |
| 4262194 | NEC Platforms, Ltd.                                                                                                                              | 18/11/2021 | 4262194 | 21903144.0 |        |
| 4263155 | Technische Universität Chemnitz                                                                                                                  | 24/01/2022 | 4263155 | 22701603.7 | German |

|         |                                                      |            |         |            |        |
|---------|------------------------------------------------------|------------|---------|------------|--------|
| 4263309 | MAN Truck & Bus SE                                   | 29/11/2021 | 4263309 | 21823500.0 | German |
| 4263499 | ARKEMA FRANCE                                        | 16/12/2021 | 4263499 | 21851836.3 | French |
| 4264107 | NORMA Germany GmbH                                   | 10/11/2021 | 4264107 | 21814700.7 | German |
| 4264334 | Cassel Meßtechnik GmbH                               | 14/12/2021 | 4264334 | 21839424.5 | German |
| 4264895 | Nokia Technologies Oy                                | 09/12/2021 | 4264895 | 21835705.1 |        |
| 4265364 | COMEXI GROUP INDUSTRIES, SAU                         | 19/04/2022 | 4265364 | 22382365.9 |        |
| 4265441 | BRIDGESTONE CORPORATION                              | 05/11/2021 | 4265441 | 21929178.8 |        |
| 4265442 | BRIDGESTONE CORPORATION                              | 05/11/2021 | 4265442 | 21929179.6 |        |
| 4265463 | VOLKSWAGEN AG                                        | 19/04/2022 | 4265463 | 22168830.2 |        |
|         | Seat, S.A.                                           |            |         |            |        |
| 4265985 | BSH Hausgeräte GmbH                                  | 30/03/2023 | 4265985 | 23165452.6 | German |
| 4266138 | The Boeing Company                                   | 24/02/2023 | 4266138 | 23158439.2 |        |
| 4266212 | Yamamoto Chemicals, Inc.                             | 25/11/2021 | 4266212 | 21906288.2 |        |
| 4266413 | LG Energy Solution, Ltd.                             | 04/07/2022 | 4266413 | 22837910.3 |        |
| 4266426 | Contemporary Amperex Technology (Hong Kong) Limited  | 04/03/2022 | 4266426 | 22917646.6 |        |
| 4266532 | Huawei Digital Power Technologies Co., Ltd.          | 29/01/2021 | 4266532 | 21921840.1 |        |
| 4266744 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. | 02/04/2021 | 4266744 | 21934094.0 |        |
| 4267144 | Lutris Pharma Ltd.                                   | 19/11/2021 | 4267144 | 21909623.7 |        |
| 4267310 | L'OREAL                                              | 17/12/2021 | 4267310 | 21848200.8 |        |
| 4268187 | Google LLC                                           | 11/03/2021 | 4268187 | 21929564.9 |        |
| 4268672 | Gulfstream Aerospace Corporation                     | 24/04/2023 | 4268672 | 23169638.6 |        |
| 4268789 | Daikyo Seiko, LTD.                                   | 29/06/2021 | 4268789 | 21909770.6 |        |
| 4269143 | Mountain Top (Denmark) ApS                           | 13/05/2020 | 4269143 | 23184093.5 |        |
| 4269191 | Audi AG                                              | 16/02/2023 | 4269191 | 23157053.2 | German |
| 4269265 | Zurita Ostos, Araceli                                | 05/11/2021 | 4269265 | 21914745.1 |        |
| 4269583 | Grail, Inc.                                          | 28/09/2018 | 4269583 | 23197626.7 |        |
| 4269954 | Goldcard Smart Group Co., Ltd.                       | 10/11/2021 | 4269954 | 21913501.9 |        |
|         | TANCY Instrument Group Co., Ltd.                     |            |         |            |        |
| 4269964 | Horiba France SAS                                    | 26/04/2023 | 4269964 | 23170187.1 | French |
| 4270137 | Techtronic Cordless GP                               | 20/04/2023 | 4270137 | 23169075.1 |        |
| 4270167 | Huawei Technologies Co. Ltd.                         | 17/01/2022 | 4270167 | 22742128.6 |        |
| 4270344 | Honeywell International Inc.                         | 11/04/2023 | 4270344 | 23167278.3 |        |
| 4270587 | Contemporary Amperex Technology (Hong Kong) Limited  | 29/01/2022 | 4270587 | 22920992.9 |        |
| 4270653 | Samsung Electronics Co., Ltd.                        | 22/11/2018 | 4270653 | 23196742.3 |        |
| 4270659 | Samsung Electronics Co., Ltd.                        | 21/11/2018 | 4270659 | 23196928.8 |        |
| 4270973 | Huawei Technologies Co. Ltd.                         | 12/02/2019 | 4270973 | 23182168.7 |        |
| 4271121 | QUALCOMM Incorporated                                | 12/01/2019 | 4271121 | 23189338.9 |        |
| 4271359 | BioPharma Synergies, S. L.                           | 21/12/2021 | 4271359 | 21839271.0 |        |
| 4271581 | Artemis Intelligent Power Limited                    | 30/12/2021 | 4271581 | 21836614.4 |        |
| 4271966 | Google LLC                                           | 13/01/2021 | 4271966 | 21704109.4 |        |
| 4272165 | L'OREAL                                              | 21/12/2021 | 4272165 | 21844963.5 |        |
| 4272416 | Microsoft Technology Licensing, LLC                  | 04/11/2021 | 4272416 | 21820030.1 |        |
| 4272477 | Telefonaktiebolaget LM Ericsson (publ)               | 26/11/2021 | 4272477 | 21835151.8 |        |
| 4272559 | ING. POLIN & C. S.p.A.                               | 21/04/2023 | 4272559 | 23169183.3 |        |
| 4272867 | Shanghai Huayi New Material Co., Ltd.                | 02/11/2021 | 4272867 | 21913452.5 |        |
| 4272971 | CANON KABUSHIKI KAISHA                               | 16/03/2023 | 4272971 | 23162259.8 |        |
| 4273299 | SK Innovation Co., Ltd.                              | 10/03/2023 | 4273299 | 23161093.2 |        |
| 4273408 | Ingersoll-Rand Industrial U.S., Inc.                 | 31/03/2023 | 4273408 | 23165844.4 |        |
| 4273975 | Kolon Industries, Inc.                               | 08/11/2021 | 4273975 | 21915490.3 |        |
| 4274107 | Infineon Technologies AG                             | 06/05/2022 | 4274107 | 22172119.4 |        |
| 4274410 | Erik Hendriks Holding B.V.                           | 06/01/2022 | 4274410 | 22701444.6 |        |
| 4274713 | Sidel Canada Inc.                                    | 03/09/2021 | 4274713 | 21863818.7 |        |
| 4275114 | Next Silicon Ltd                                     | 05/01/2022 | 4275114 | 22703096.2 |        |
| 4275177 | Tencent America LLC                                  | 22/07/2022 | 4275177 | 22899250.9 |        |
| 4275191 | Universal Electronics Inc.                           | 08/02/2022 | 4275191 | 22753195.1 |        |
| 4275206 | Dolby Laboratories Licensing Corporation             | 04/01/2022 | 4275206 | 22700353.0 |        |
| 4275502 | Poly-clip System GmbH & Co. KG                       | 10/05/2022 | 4275502 | 22172577.3 |        |

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| 4275576 | Foshan Shunde Midea Washing Appliances Manufacturing Co., Ltd.                                                                 | 08/05/2018 | 4275576 | 23200656.9 |        |
| 4275613 | Koh Young Technology Inc.                                                                                                      | 11/02/2020 | 4275613 | 23194779.7 |        |
| 4275658 | Smith & Nephew, Inc.                                                                                                           | 24/03/2020 | 4275658 | 23194958.7 |        |
|         | Smith & Nephew Asia Pacific Pte. Limited                                                                                       |            |         |            |        |
|         | Smith & Nephew Orthopaedics AG                                                                                                 |            |         |            |        |
| 4275832 | KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)                                                                             | 28/01/2022 | 4275832 | 22755901.0 |        |
| 4275865 | CiTEX Holding GmbH                                                                                                             | 18/04/2023 | 4275865 | 23168396.2 | German |
| 4275882 | TOPPAN INC.                                                                                                                    | 02/03/2022 | 4275882 | 22774964.5 |        |
| 4275974 | Hyundai Mobis Co., Ltd.                                                                                                        | 25/08/2022 | 4275974 | 22192085.3 |        |
| 4276151 | Resonac Corporation                                                                                                            | 02/11/2022 | 4276151 | 22910623.2 |        |
| 4276421 | TSI Incorporated                                                                                                               | 09/05/2023 | 4276421 | 23172334.7 |        |
| 4276556 | Dassault Systèmes                                                                                                              | 07/10/2021 | 4276556 | 23194902.5 |        |
| 4276678 | Huawei Technologies Co. Ltd.                                                                                                   | 25/01/2022 | 4276678 | 22745211.7 |        |
| 4276751 | Siemens Healthineers AG                                                                                                        | 28/11/2019 | 4276751 | 23192012.5 |        |
| 4276802 | NTT, Inc.                                                                                                                      | 10/02/2021 | 4276802 | 21925616.1 |        |
| 4277075 | Huawei Digital Power Technologies Co., Ltd.                                                                                    | 11/01/2022 | 4277075 | 22748816.0 |        |
| 4277673 | The State of Israel, Ministry of Agriculture & Rural Development, Agricultural Research Organization (ARO) (Volcani Institute) | 18/01/2022 | 4277673 | 22739275.0 |        |
| 4278913 | Nicoventures Trading Limited                                                                                                   | 09/08/2017 | 4278913 | 23199638.0 |        |
| 4278940 | Kemaro AG                                                                                                                      | 10/12/2019 | 4278940 | 23201753.3 | German |
| 4279013 | Intuitive Surgical Operations, Inc.                                                                                            | 22/08/2018 | 4279013 | 23201409.2 |        |
| 4279108 | Air Liquide Medical Systems                                                                                                    | 18/05/2022 | 4279108 | 22174137.4 |        |
| 4279299 | Helmling Holding B.V.                                                                                                          | 19/05/2022 | 4279299 | 22174319.8 | German |
|         | P.H.M. Blom Holding B.V.                                                                                                       |            |         |            |        |
| 4279722 | RTX Corporation                                                                                                                | 19/05/2023 | 4279722 | 23174393.1 |        |
| 4279907 | LG Energy Solution, Ltd.                                                                                                       | 18/11/2022 | 4279907 | 22901641.5 |        |
| 4280408 | Hitachi Energy Ltd                                                                                                             | 17/05/2022 | 4280408 | 22173817.2 |        |
| 4280579 | Google LLC                                                                                                                     | 09/08/2018 | 4280579 | 23200954.8 |        |
| 4281003 | Septodont ou Septodont SAS ou Spécialités Septodont                                                                            | 21/01/2022 | 4281003 | 22702220.9 |        |
| 4281030 | Beiersdorf AG                                                                                                                  | 13/01/2022 | 4281030 | 22701890.0 | German |
| 4281036 | The Procter & Gamble Company                                                                                                   | 21/01/2022 | 4281036 | 22704852.7 |        |
| 4281345 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                                                                            | 19/05/2021 | 4281345 | 21728490.0 |        |
| 4281753 | Beckman Coulter Biotechnology (Suzhou) Co., Ltd.                                                                               | 01/11/2021 | 4281753 | 21816313.7 |        |
| 4281823 | TRUMPF Lasersystems for Semiconductor Manufacturing SE                                                                         | 22/01/2021 | 4281823 | 21701519.7 | German |
| 4282091 | Huawei Technologies Co. Ltd.                                                                                                   | 03/03/2021 | 4282091 | 21721237.2 |        |
| 4282600 | Nabtesco Corporation                                                                                                           | 19/05/2023 | 4282600 | 23174292.5 |        |
| 4282733 | Autoliv Development AB                                                                                                         | 11/01/2022 | 4282733 | 22742456.1 |        |
| 4282799 | Kingfisher International Products Limited                                                                                      | 07/12/2022 | 4282799 | 22212069.3 |        |
| 4283247 | DMG Mori Co., Ltd.                                                                                                             | 22/01/2021 | 4283247 | 21920127.4 |        |
| 4283291 | General Electric Renovables España S.L.                                                                                        | 09/05/2023 | 4283291 | 23172310.7 |        |
| 4283312 | Sagemcom Energy & Telecom SAS                                                                                                  | 23/05/2023 | 4283312 | 23174894.8 | French |
| 4283465 | Beijing Baidu Netcom Science Technology Co., Ltd.                                                                              | 11/11/2022 | 4283465 | 22206881.9 |        |
| 4283477 | Samsung Electronics Co., Ltd.                                                                                                  | 06/04/2023 | 4283477 | 23167032.4 |        |
| 4283516 | BRIDGESTONE CORPORATION                                                                                                        | 24/11/2021 | 4283516 | 21948492.0 |        |
| 4283941 | Robert Bosch GmbH                                                                                                              | 23/05/2022 | 4283941 | 22174916.1 |        |
| 4284004 | BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.                                                                                 | 19/09/2022 | 4284004 | 22885492.3 |        |
| 4284273 | Stryker European Operations Limited                                                                                            | 27/01/2021 | 4284273 | 21703064.2 |        |
| 4285045 | NORMA Germany GmbH                                                                                                             | 27/07/2021 | 4285045 | 21749624.9 | German |
| 4285438 | Analog Devices International Unlimited Company                                                                                 | 21/01/2022 | 4285438 | 22704499.7 |        |
| 4286772 | Trane International Inc.                                                                                                       | 02/06/2023 | 4286772 | 23177110.6 |        |

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| 4286926 | Commissariat à l'Energie Atomique et aux Energies Alternatives                                                               | 30/05/2023 | 4286926 | 23176231.1 | French |
| 4287256 | Changxin Memory Technologies, Inc.                                                                                           | 08/07/2021 | 4287256 | 21928731.5 |        |
| 4287378 | LG Energy Solution, Ltd.                                                                                                     | 17/11/2022 | 4287378 | 22904515.8 |        |
| 4287655 | Sivantos Pte. Ltd.                                                                                                           | 01/06/2022 | 4287655 | 22176842.7 |        |
| 4287799 | Google LLC                                                                                                                   | 11/11/2022 | 4287799 | 22206915.5 |        |
| 4288686 | Colder Products Company                                                                                                      | 22/11/2021 | 4288686 | 21925071.9 |        |
| 4289294 | Shenzhen Smoore Technology Limited                                                                                           | 02/05/2023 | 4289294 | 23170995.7 |        |
| 4289605 | RTX Corporation                                                                                                              | 05/06/2023 | 4289605 | 23177205.4 |        |
| 4289677 | Zhejiang Smart Intelligence Technology Co., Ltd.                                                                             | 02/02/2021 | 4289677 | 21923667.6 |        |
| 4289934 | Finnadvance Oy                                                                                                               | 09/06/2022 | 4289934 | 22178172.7 |        |
| 4290354 | Huawei Technologies Co. Ltd.                                                                                                 | 30/01/2022 | 4290354 | 22773920.8 |        |
| 4290628 | Hydrogenics Corporation                                                                                                      | 08/06/2023 | 4290628 | 23178290.5 |        |
| 4290825 | BIGO TECHNOLOGY PTE. LTD.                                                                                                    | 11/02/2022 | 4290825 | 22766117.0 |        |
| 4291802 | Schaeffler Technologies AG & Co. KG                                                                                          | 18/01/2022 | 4291802 | 22701523.7 | German |
| 4291871 | Fundación Tecnalia Research & Innovation Tecnologica Leioa Aie                                                               | 08/02/2022 | 4291871 | 22703678.7 |        |
| 4292248 | Jones Lang Lasalle Technologies GmbH                                                                                         | 10/02/2022 | 4292248 | 22708813.5 |        |
| 4292739 | Black & Decker, Inc.                                                                                                         | 05/05/2023 | 4292739 | 23171790.1 |        |
| 4292741 | Black & Decker Inc.                                                                                                          | 05/05/2023 | 4292741 | 23171792.7 |        |
| 4293217 | VESTAS WIND SYSTEMS A/S                                                                                                      | 01/06/2023 | 4293217 | 23176606.4 |        |
| 4293382 | VOLKSWAGEN AG<br>Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.                                        | 17/06/2022 | 4293382 | 22179578.4 |        |
| 4293936 | University of Leeds                                                                                                          | 26/11/2015 | 4293936 | 23194963.7 |        |
| 4294054 | Sivantos Pte. Ltd.                                                                                                           | 12/05/2023 | 4294054 | 23173085.4 | German |
| 4294271 | NTT New Textile Technologies GmbH                                                                                            | 12/04/2023 | 4294271 | 23717406.5 | German |
| 4294710 | Airhawk International, LLC                                                                                                   | 24/03/2021 | 4294710 | 21926997.4 |        |
| 4295022 | GE Vernova Technology GmbH                                                                                                   | 17/02/2022 | 4295022 | 22757169.2 |        |
| 4295508 | Lucibel SA                                                                                                                   | 15/02/2022 | 4295508 | 22709001.6 | French |
| 4295880 | Boehringer Ingelheim Vetmedica GmbH                                                                                          | 19/08/2014 | 4295880 | 23209197.5 |        |
| 4296515 | mitsubishi heavy industries thermal systems, ltd.                                                                            | 12/05/2022 | 4296515 | 22807535.4 |        |
| 4296724 | ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)                                                                              | 09/06/2023 | 4296724 | 23178334.1 |        |
| 4296908 | Google LLC                                                                                                                   | 09/08/2017 | 4296908 | 23200786.4 |        |
| 4296986 | Panasonic Intellectual Property Management Co., Ltd.                                                                         | 14/06/2023 | 4296986 | 23179098.1 |        |
| 4297145 | LG Energy Solution, Ltd.                                                                                                     | 28/10/2022 | 4297145 | 22887719.7 |        |
| 4297317 | Huawei Technologies Co. Ltd.                                                                                                 | 14/02/2022 | 4297317 | 22773938.0 |        |
| 4297864 | RefleXion Medical, Inc.                                                                                                      | 22/02/2022 | 4297864 | 22709496.8 |        |
| 4297867 | Institut national de la santé et de la recherche médicale (INSERM)<br>Université Claude Bernard Lyon 1<br>Centre Léon Bérard | 25/02/2022 | 4297867 | 22707751.8 |        |
| 4298334 | OPmobility C-Power Belgium Research                                                                                          | 23/02/2022 | 4298334 | 22707433.3 | French |
| 4298574 | Nypro Inc.                                                                                                                   | 28/02/2022 | 4298574 | 22760559.9 |        |
| 4299083 | Cellartgen Inc.                                                                                                              | 31/03/2022 | 4299083 | 22781642.8 |        |
| 4299349 | aisin corporation                                                                                                            | 29/06/2022 | 4299349 | 22833205.2 |        |
| 4299380 | Hyundai Mobis Co., Ltd.                                                                                                      | 18/11/2022 | 4299380 | 22208260.4 |        |
| 4299719 | Univerza v Mariboru                                                                                                          | 27/06/2023 | 4299719 | 23181590.3 |        |
| 4299823 | Totofolder Manufacturing Co., Ltd.                                                                                           | 26/02/2021 | 4299823 | 21927944.5 |        |
| 4300203 | CANON KABUSHIKI KAISHA                                                                                                       | 13/06/2023 | 4300203 | 23178892.8 |        |
| 4300312 | Telefonica Innovacion Digital SL                                                                                             | 15/03/2021 | 4300312 | 21931367.3 |        |
| 4300440 | Samsung Electronics Co., Ltd.                                                                                                | 04/11/2021 | 4300440 | 23210143.6 |        |
| 4300690 | Contemporary Amperex Technology (Hong Kong) Limited                                                                          | 13/01/2022 | 4300690 | 22919419.6 |        |
| 4300983 | Huawei Technologies Co. Ltd.                                                                                                 | 26/03/2021 | 4300983 | 21932238.5 |        |
| 4301083 | Samsung Electronics Co., Ltd.                                                                                                | 04/04/2022 | 4301083 | 22781722.8 |        |
| 4301246 | Carponovum AB                                                                                                                | 16/02/2022 | 4301246 | 22763681.8 |        |
| 4301992 | Woodwelding AG                                                                                                               | 04/03/2022 | 4301992 | 22711010.3 |        |

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| 4302706 | Covidien LP                                                  | 09/09/2020 | 4302706 | 23212710.0 |        |
| 4303084 | Goodrich Corporation                                         | 22/06/2023 | 4303084 | 23181047.4 |        |
| 4303227 | AJINOMOTO CO., INC.                                          | 07/03/2022 | 4303227 | 22763449.0 |        |
| 4303473 | Dell'Agli, Miguel                                            | 30/04/2021 | 4303473 | 21928393.4 |        |
| 4303734 | Samsung Electronics Co., Ltd.                                | 05/06/2023 | 4303734 | 23177191.6 |        |
| 4304044 | LG ENERGY SOLUTION, LTD.                                     | 02/11/2022 | 4304044 | 22890381.1 |        |
| 4304154 | DAIKIN INDUSTRIES, LTD.                                      | 01/03/2022 | 4304154 | 22763250.2 |        |
| 4304689 | ResMed Pty Ltd                                               | 09/03/2022 | 4304689 | 22767607.9 |        |
| 4304744 | Brainaix Swiss AG                                            | 03/03/2022 | 4304744 | 22709728.4 | German |
| 4304796 | Grob-Werke GmbH & Co. KG                                     | 30/03/2022 | 4304796 | 22719852.0 | German |
| 4304883 | Muvig S.r.l.                                                 | 10/03/2022 | 4304883 | 22715171.9 |        |
| 4304913 | Schunk Transit Systems GmbH                                  | 10/03/2021 | 4304913 | 21712737.2 | German |
| 4305989 | Ulbrichts GmbH                                               | 15/07/2022 | 4305989 | 22185143.9 | German |
| 4306257 | Contemporary Amperex Technology (Hong Kong) Limited          | 26/06/2023 | 4306257 | 23181541.6 |        |
| 4306396 | Bike43                                                       | 19/06/2023 | 4306396 | 23180099.6 | French |
| 4306763 | dormakaba Deutschland GmbH                                   | 11/07/2022 | 4306763 | 22184175.2 | German |
| 4306951 | ESR Technology Limited                                       | 11/07/2023 | 4306951 | 23184879.7 |        |
| 4307320 | Changchun Jetty Automotive Technology Co., Ltd.              | 09/11/2021 | 4307320 | 21929912.0 |        |
| 4307370 | Changxin Memory Technologies, Inc.                           | 29/06/2022 | 4307370 | 22925224.2 |        |
| 4307411 | LG Energy Solution, Ltd.                                     | 05/10/2022 | 4307411 | 22878888.1 |        |
| 4307504 | Changchun Jetty Automotive Technology Co., Ltd.              | 25/01/2022 | 4307504 | 22766093.3 |        |
| 4307620 | INTEL Corporation                                            | 03/06/2021 | 4307620 | 23211536.0 |        |
| 4308804 | FPT Industrial S.p.A.                                        | 07/03/2022 | 4308804 | 22714004.3 |        |
| 4308815 | Siemens Gamesa Renewable Energy Innovation & Technology S.L. | 07/04/2022 | 4308815 | 22721352.7 |        |
| 4308859 | Wanit S.A.                                                   | 17/03/2022 | 4308859 | 22716038.9 | French |
| 4309171 | Fridman-Mintz, Boris                                         | 13/05/2022 | 4309171 | 22804144.8 |        |
| 4309858 | Intelligrated Headquarters LLC                               | 17/07/2023 | 4309858 | 23185766.5 |        |
| 4309881 | Rohr, Inc.                                                   | 03/07/2023 | 4309881 | 23183118.1 |        |
| 4310561 | GlobalFoundries U.S. Inc.                                    | 21/06/2023 | 4310561 | 23180505.2 |        |
| 4310810 | Honeywell International Inc.                                 | 05/07/2023 | 4310810 | 23183734.5 |        |
| 4311030 | Japan Aviation Electronics Industry, Limited                 | 25/04/2023 | 4311030 | 23169824.2 |        |
| 4311295 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.         | 19/03/2021 | 4311295 | 21930909.3 |        |
| 4311651 | Milacron Marketing Company LLC                               | 17/07/2023 | 4311651 | 23185787.1 |        |
| 4312034 | NXP USA, Inc.                                                | 24/07/2023 | 4312034 | 23187256.5 |        |
| 4312059 | Rockwell Collins, Inc.                                       | 25/07/2023 | 4312059 | 23187662.4 |        |
| 4312283 | Samsung SDI Co., Ltd.                                        | 20/07/2023 | 4312283 | 23186637.7 |        |
| 4312410 | Renesas Electronics Corporation                              | 29/07/2022 | 4312410 | 22187758.2 |        |
| 4312883 | Edwards Lifesciences Corporation                             | 22/03/2022 | 4312883 | 22715887.0 |        |
| 4312896 | Ottobock SE & Co. KGaA                                       | 24/03/2022 | 4312896 | 22718606.1 | German |
| 4313834 | INVENTIO AG                                                  | 31/03/2022 | 4313834 | 22720568.9 | German |
| 4314438 | GSA SRL                                                      | 09/03/2022 | 4314438 | 22711539.1 |        |
| 4314470 | Sandvik Mining and Construction Oy                           | 22/03/2022 | 4314470 | 22717133.7 |        |
| 4314988 | Sandvik Mining and Construction Tools AB                     |            |         |            |        |
| 4314988 | ORACLE INTERNATIONAL CORPORATION                             | 29/03/2022 | 4314988 | 22721514.2 |        |
| 4315093 | Planetscale, Inc.                                            | 29/03/2022 | 4315093 | 22782051.1 |        |
| 4315801 | Telefonaktiebolaget LM Ericsson (publ)                       | 24/03/2022 | 4315801 | 22717903.3 |        |
| 4315811 | Cira Apps Limited                                            | 30/03/2022 | 4315811 | 22720542.4 |        |
| 4316669 | Illinois Tool Works Inc.                                     | 14/07/2023 | 4316669 | 23185543.8 | German |
| 4316716 | Illinois Tool Works Inc.                                     | 17/07/2023 | 4316716 | 23185747.5 |        |
| 4316718 | JFE Steel Corporation                                        | 14/03/2022 | 4316718 | 22810928.6 |        |
| 4316757 | Panasonic Intellectual Property Management Co., Ltd.         | 18/01/2022 | 4316757 | 22779393.2 |        |
| 4316764 | Kaneka Corporation                                           | 29/03/2022 | 4316764 | 22780858.1 |        |
| 4316940 | CGL                                                          | 03/08/2023 | 4316940 | 23189537.6 | French |
| 4317460 | Asahi Kasei Life Science Corporation                         | 25/03/2022 | 4317460 | 22775825.7 |        |

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| 4317604 | Sumitomo Construction Machinery Co., Ltd.                            | 29/03/2022 | 4317604 | 22780987.8 |        |
| 4317715 | Intelligrated Headquarters LLC                                       | 16/10/2020 | 4317715 | 23217719.6 |        |
| 4317902 | WHG Properties, LLC                                                  | 09/06/2023 | 4317902 | 23178453.9 |        |
| 4318023 | Imec VZW                                                             | 26/07/2023 | 4318023 | 23187744.0 |        |
| 4318034 | Imec VZW                                                             | 26/07/2023 | 4318034 | 23187747.3 |        |
| 4318121 | FUJIFILM Corporation                                                 | 29/03/2022 | 4318121 | 22780940.7 |        |
| 4318163 | CLAAS E-Systems GmbH                                                 | 09/02/2023 | 4318163 | 23155860.2 | German |
| 4318167 | Wisk Aero LLC                                                        | 16/10/2017 | 4318167 | 23216810.4 |        |
| 4318466 | Sony Group Corporation                                               | 31/08/2015 | 4318466 | 23216185.1 |        |
| 4318570 | Daikin Industries, Ltd.                                              | 17/03/2022 | 4318570 | 22780173.5 |        |
| 4318769 | Contemporary Amperex Technology (Hong Kong) Limited                  | 16/05/2022 | 4318769 | 22940493.4 |        |
| 4319004 | Wilus Institute of Standards and Technology Inc.                     | 31/03/2022 | 4319004 | 22781676.6 |        |
| 4319097 | Tencent Technology (Shenzhen) Company Limited                        | 10/05/2022 | 4319097 | 22803829.5 |        |
| 4319939 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 28/03/2022 | 4319939 | 22718685.5 | German |
| 4319946 | Edgewell Personal Care Brands, LLC                                   | 18/03/2022 | 4319946 | 22715280.8 |        |
| 4320035 | Bluewater Energy Services B.V.                                       | 29/03/2022 | 4320035 | 22714633.9 |        |
| 4320925 | Nokia Technologies Oy                                                | 05/04/2022 | 4320925 | 22720662.0 |        |
| 4321669 | Aquapak IP Limited                                                   | 11/08/2023 | 4321669 | 23191145.4 |        |
| 4321742 | Ontras Gastransport GmbH                                             | 11/07/2023 | 4321742 | 23184707.0 | German |
| 4321766 | Nakanishi Metal Works Co., Ltd.                                      | 20/07/2023 | 4321766 | 23186694.8 |        |
| 4321874 | ROSEMOUNT AEROSPACE INC.                                             | 08/08/2023 | 4321874 | 23190336.0 |        |
| 4322078 | MAZDA MOTOR CORPORATION                                              | 07/04/2022 | 4322078 | 22795548.1 |        |
| 4322080 | MAZDA MOTOR CORPORATION                                              | 07/04/2022 | 4322080 | 22795550.7 |        |
| 4322276 | LG Energy Solution, Ltd.                                             | 11/11/2022 | 4322276 | 22893262.0 |        |
| 4322302 | LG Energy Solution, Ltd.                                             | 14/04/2023 | 4322302 | 23792115.0 |        |
| 4322357 | Hefei Yitong Electronic Technology Co., Ltd                          | 15/03/2022 | 4322357 | 22786743.9 |        |
| 4323238 | Renault s.a.s                                                        | 08/04/2022 | 4323238 | 22721759.3 | French |
| 4323239 | KOSTAL Automobil Elektrik GmbH & Co. KG                              | 05/04/2022 | 4323239 | 22720969.9 | German |
| 4323709 | Schunk Ingenieurkeramik GmbH                                         | 07/04/2022 | 4323709 | 22721690.0 | German |
| 4323876 | Micron Technology, Inc.                                              | 15/04/2022 | 4323876 | 22789047.2 |        |
| 4323964 | Microsoft Technology Licensing, LLC                                  | 25/03/2022 | 4323964 | 22720531.7 |        |
| 4324181 | Huawei Technologies Co., Ltd.                                        | 10/06/2021 | 4324181 | 21733400.2 |        |
| 4324312 | GOOGLE LLC                                                           | 17/11/2022 | 4324312 | 22835953.5 |        |
| 4324530 | North Sea Offshore Technology (Yantai) Co., Ltd                      | 19/04/2023 | 4324530 | 23786997.9 |        |
| 4324663 | Continental Reifen Deutschland GmbH                                  | 03/08/2023 | 4324663 | 23189562.4 | German |
| 4324746 | Dassault Aviation                                                    | 12/01/2022 | 4324746 | 24151080.9 | French |
| 4325179 | Laborie Medical Technologies Corp.                                   | 16/10/2020 | 4325179 | 23217783.2 |        |
| 4325539 | KABUSHIKI KAISHA TOYOTA JIDOSHOKKI                                   | 15/04/2022 | 4325539 | 22824669.0 |        |
| 4325551 | Changxin Memory Technologies, Inc.                                   | 08/09/2021 | 4325551 | 21947874.0 |        |
| 4325748 | Chengdu T-Ray Technology Co., Ltd.                                   | 09/05/2022 | 4325748 | 22803814.7 |        |
| 4326207 | LYV LIFE INC. DBA CORA                                               | 18/04/2022 | 4326207 | 22792268.9 |        |
| 4326345 | Sartorius Stedim FMT                                                 | 21/04/2022 | 4326345 | 22723712.0 | French |
| 4326989 | Robert Bosch GmbH                                                    | 13/04/2022 | 4326989 | 22722725.3 | German |
| 4326999 | TRUMPF Laser- und Systemtechnik SE                                   | 13/04/2022 | 4326999 | 22723991.0 | German |
| 4327064 | Politecnico di Milano                                                | 22/04/2022 | 4327064 | 22724100.7 |        |
| 4327082 | KLA Corporation                                                      | 22/09/2022 | 4327082 | 22877156.4 |        |
| 4327784 | Zimmer, Inc.                                                         | 21/08/2023 | 4327784 | 23192491.1 |        |
| 4327909 | YAMASHIN-FILTER CORP.                                                | 11/03/2022 | 4327909 | 22791401.7 |        |
| 4327974 | LG ENERGY SOLUTION, LTD.                                             | 20/10/2022 | 4327974 | 22884066.6 |        |
| 4328536 | Heckler & Koch GmbH                                                  | 25/02/2022 | 4328536 | 24151898.4 | German |
| 4329287 | Huawei Technologies Co., Ltd.                                        | 28/03/2022 | 4329287 | 22814827.6 |        |
| 4330473 | Henkel AG & Co. KGaA                                                 | 31/03/2022 | 4330473 | 22720570.5 | German |
| 4331428 | Nike Innovate C.V.                                                   | 30/08/2013 | 4331428 | 23202774.8 |        |



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| 4331494 | FUJIFILM Corporation                           | 29/08/2023 | 4331494 | 23194064.4 |        |
| 4331496 | FUJIFILM Corporation                           | 29/08/2023 | 4331496 | 23193977.8 |        |
| 4331510 | Medtronic Xomed, Inc.                          | 24/08/2023 | 4331510 | 23193260.9 |        |
| 4332189 | Asahi Kasei Kabushiki Kaisha                   | 08/07/2021 | 4332189 | 23215376.7 |        |
| 4332304 | Wirtgen GmbH                                   | 01/09/2023 | 4332304 | 23194878.7 | German |
| 4332369 | Yamabiko Corporation                           | 26/04/2021 | 4332369 | 21939186.9 |        |
|         | Oppama Industry Co., Ltd                       |            |         |            |        |
| 4332604 | Canon Medical Systems Corporation              | 05/09/2023 | 4332604 | 23195385.2 |        |
| 4332687 | ETA SA Manufacture Horlogère Suisse            | 08/08/2023 | 4332687 | 23190159.6 | French |
| 4332888 | FUJITSU LIMITED                                | 01/06/2023 | 4332888 | 23176642.9 |        |
| 4333246 | LG Energy Solution, Ltd.                       | 07/11/2022 | 4333246 | 22890480.1 |        |
| 4333410 | Samsung Electronics Co., Ltd.                  | 22/07/2022 | 4333410 | 22846310.5 |        |
| 4333725 | Covidien LP                                    | 26/04/2022 | 4333725 | 22721863.3 |        |
| 4333934 | B. Braun Melsungen AG                          | 29/04/2022 | 4333934 | 22722853.3 | German |
| 4334110 | Syntegon Technology GmbH                       | 04/05/2022 | 4334110 | 22727841.3 | German |
| 4334785 | IMUBIT ISRAEL LTD.                             | 07/02/2022 | 4334785 | 22799246.8 |        |
| 4334929 | Schreiner Group GmbH & Co. KG                  | 22/04/2022 | 4334929 | 22724713.7 | German |
| 4335651 | Hewlett-Packard Development Company L.P.       | 30/06/2016 | 4335651 | 24155024.3 |        |
|         |                                                |            |         |            |        |
| 4335786 | F.B. Automazione S.r.l.                        | 01/09/2023 | 4335786 | 23194888.6 |        |
| 4335806 | Linden Comansa, S.L.                           | 07/09/2023 | 4335806 | 23195888.5 |        |
| 4336108 | Vaillant GmbH                                  | 06/09/2023 | 4336108 | 23195750.7 | German |
| 4336246 | Meta Platforms Technologies, LLC               | 30/08/2023 | 4336246 | 23194355.6 |        |
| 4336306 | Samsung Electronics Co., Ltd.                  | 13/06/2022 | 4336306 | 22849712.9 |        |
| 4336935 | Huawei Technologies Co., Ltd.                  | 27/05/2022 | 4336935 | 22815166.8 |        |
| 4337498 | Mercedes-Benz Group AG                         | 27/04/2022 | 4337498 | 22726406.6 | German |
| 4337856 | VESTAS WIND SYSTEMS A/S                        | 07/03/2022 | 4337856 | 22709577.5 |        |
| 4337888 | Zumtobel Lighting GmbH                         | 06/05/2022 | 4337888 | 22728156.5 | German |
| 4338126 | Quantum Surgical                               | 06/05/2022 | 4338126 | 22724825.9 | French |
| 4338584 | YesHealth Agri-Biotechnology Co., Ltd.         | 24/03/2023 | 4338584 | 23164157.2 |        |
| 4338720 | CEFLA SOCIETA' COOPERATIVA                     | 11/09/2023 | 4338720 | 23196495.8 |        |
| 4339491 | Keeper Co., Ltd.                               | 27/04/2022 | 4339491 | 22807361.5 |        |
|         | NTN Corporation                                |            |         |            |        |
| 4339563 | Simmonds Precision Products, Inc.              | 13/09/2023 | 4339563 | 23197194.6 |        |
| 4339712 | Envisics Ltd.                                  | 08/08/2023 | 4339712 | 23190164.6 |        |
| 4339727 | The Raymond Corporation                        | 28/07/2023 | 4339727 | 23188289.5 |        |
| 4339808 | BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD. | 07/06/2022 | 4339808 | 22841082.5 |        |
|         |                                                |            |         |            |        |
| 4340055 | LG Energy Solution, Ltd.                       | 28/02/2023 | 4340055 | 23763679.0 |        |
| 4340122 | PCTEL, Inc.                                    | 12/09/2023 | 4340122 | 23197004.7 |        |
| 4340195 | Infineon Technologies Austria AG               | 19/09/2022 | 4340195 | 22196403.4 |        |
| 4340352 | Beijing Zitiao Network Technology Co., Ltd.    | 17/08/2022 | 4340352 | 22857828.2 |        |
|         |                                                |            |         |            |        |
| 4340365 | LG Electronics Inc.                            | 05/11/2020 | 4340365 | 24155726.3 |        |
| 4340782 | Vytruve                                        | 16/05/2022 | 4340782 | 22729552.4 | French |
| 4341068 | Grob-Werke GmbH & Co. KG                       | 09/03/2022 | 4341068 | 22712362.7 | German |
| 4341352 | Ink Invent IP B.V.                             | 16/05/2022 | 4341352 | 22729532.6 |        |
| 4341605 | Stellantis Auto SAS                            | 28/03/2022 | 4341605 | 22718216.9 | German |
| 4341686 | Zenzr Sverige AB                               | 25/05/2022 | 4341686 | 22811738.8 |        |
| 4341759 | Siemens Aktiengesellschaft                     | 16/08/2022 | 4341759 | 22764798.9 | German |
| 4341926 | BOE Technology Group Co., Ltd.                 | 27/09/2021 | 4341926 | 21958028.9 |        |
| 4342126 | nCipher Security Limited                       | 19/05/2022 | 4342126 | 22725927.2 |        |
| 4342360 | TOPCON CORPORATION                             | 22/09/2023 | 4342360 | 23198959.1 |        |
| 4342647 | Kogan, Artem Sergeevich                        | 12/05/2022 | 4342647 | 22805066.2 |        |
| 4342790 | Airbus Operations Limited                      | 11/09/2023 | 4342790 | 23196689.6 |        |
| 4342887 | LG Chem, Ltd.                                  | 09/01/2023 | 4342887 | 23737461.6 |        |
| 4343421 | NTT, Inc.                                      | 20/05/2021 | 4343421 | 21940785.5 |        |
| 4344217 | Samsung Electronics Co., Ltd.                  | 12/08/2022 | 4344217 | 22892982.4 |        |
| 4344710 | Vaim Co., Ltd.                                 | 14/06/2023 | 4344710 | 23824225.9 |        |
| 4344719 | Pneuma Respiratory, Inc.                       | 17/10/2018 | 4344719 | 24158716.1 |        |
| 4345313 | LG Electronics Inc.                            | 27/09/2023 | 4345313 | 23199967.3 |        |

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| 4345505 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                                        | 23/06/2021 | 4345505 | 21946383.3 |        |
| 4345878 | INTEL Corporation                                                                           | 15/08/2023 | 4345878 | 23191474.8 |        |
| 4346562 | Zimmer, Inc.                                                                                | 03/06/2022 | 4346562 | 22747157.0 |        |
| 4347065 | Kaiser, Axel                                                                                | 04/05/2022 | 4347065 | 22727300.0 | German |
| 4347351 | S.p.i.ga. S.r.l.                                                                            | 26/05/2022 | 4347351 | 22729817.1 |        |
| 4348425 | Ab Initio Technology LLC                                                                    | 03/06/2022 | 4348425 | 22738120.9 |        |
| 4349226 | Västia Plastindustri AB                                                                     | 05/10/2023 | 4349226 | 23201820.0 |        |
| 4349280 | Boston Scientific Scimed, Inc.                                                              | 01/11/2017 | 4349280 | 24157097.7 |        |
| 4350137 | RTX Corporation                                                                             | 28/03/2022 | 4350137 | 24160061.8 |        |
| 4350225 | LG Electronics Inc.                                                                         | 02/10/2023 | 4350225 | 23201105.6 |        |
| 4350227 | LG Electronics Inc.                                                                         | 27/09/2023 | 4350227 | 23199954.1 |        |
| 4350408 | NTT, Inc.                                                                                   | 31/05/2021 | 4350408 | 21944064.1 |        |
| 4350501 | CANON KABUSHIKI KAISHA                                                                      | 14/09/2023 | 4350501 | 23197290.2 |        |
| 4351253 | LG ELECTRONICS INC.                                                                         | 11/08/2023 | 4351253 | 23758198.8 |        |
| 4351763 | Bechtel Energy Technologies & Solutions, Inc.                                               | 30/06/2022 | 4351763 | 22838258.6 |        |
| 4351951 | Chouksey, Avadh Kishor                                                                      | 13/05/2022 | 4351951 | 22804141.4 |        |
| 4352575 | BASF SE                                                                                     | 27/05/2022 | 4352575 | 22733539.5 |        |
| 4352724 | Google LLC                                                                                  | 01/07/2022 | 4352724 | 22748697.4 |        |
| 4352792 | Signify Holding B.V.                                                                        | 03/06/2022 | 4352792 | 22732148.6 |        |
| 4352890 | QUALCOMM INCORPORATED                                                                       | 09/06/2021 | 4352890 | 21944546.7 |        |
| 4352903 | QUALCOMM INCORPORATED                                                                       | 11/05/2022 | 4352903 | 22729874.2 |        |
| 4353197 | Marnay, Thierry<br>Cloix, Erick                                                             | 14/10/2022 | 4353197 | 22201675.0 |        |
| 4353289 | Fisher & Paykel Healthcare Limited                                                          | 27/11/2014 | 4353289 | 23217768.3 |        |
| 4353306 | Stryker European Operations Limited                                                         | 12/10/2022 | 4353306 | 22201061.3 |        |
| 4353431 | Wuxi Lead Intelligent Equipment Co., Ltd.                                                   | 02/11/2022 | 4353431 | 22826579.9 |        |
| 4353507 | Fuzhou Mingfang Automobile Parts Industry Co., Ltd.<br>Hsin Chong Machinery Works Co., Ltd. | 22/05/2023 | 4353507 | 23174481.4 |        |
| 4353563 | ALSTOM Transport SA                                                                         | 10/10/2023 | 4353563 | 23202800.1 | French |
| 4353954 | PRATT & WHITNEY CANADA CORP.                                                                | 09/10/2023 | 4353954 | 23202529.6 |        |
| 4353971 | Techtronic Cordless GP                                                                      | 10/10/2023 | 4353971 | 23202842.3 |        |
| 4354271 | Samsung Electronics Co., Ltd.                                                               | 26/09/2023 | 4354271 | 23199661.2 |        |
| 4354286 | Petal Cloud Technology Co., Ltd.                                                            | 18/07/2022 | 4354286 | 22848320.2 |        |
| 4354815 | Huawei Technologies Co., Ltd.                                                               | 04/07/2022 | 4354815 | 22836869.2 |        |
| 4355024 | Huawei Technologies Co., Ltd.                                                               | 30/07/2022 | 4355024 | 22852092.0 |        |
| 4355616 | Quantum Fuel Systems LLC                                                                    | 15/06/2022 | 4355616 | 22825762.2 |        |
| 4355676 | KONE Corporation                                                                            | 16/06/2021 | 4355676 | 21734098.3 |        |
| 4356016 | Voith Patent GmbH                                                                           | 11/04/2022 | 4356016 | 22718997.4 | German |
| 4356403 | Massachusetts Institute Of Technology<br>Commonwealth Fusion Systems LLC                    | 19/05/2022 | 4356403 | 22938736.0 |        |
| 4356706 | Deere & Company                                                                             | 24/08/2023 | 4356706 | 23193093.4 |        |
| 4356844 | FUJIFILM Corporation                                                                        | 18/10/2023 | 4356844 | 23204479.2 |        |
| 4357031 | Contemporary Amperex Technology (Hong Kong) Limited                                         | 10/10/2022 | 4357031 | 22897409.3 |        |
| 4357156 | BRIDGESTONE CORPORATION                                                                     | 17/11/2021 | 4357156 | 21946120.9 |        |
| 4357230 | SRAM, LLC.                                                                                  | 11/04/2022 | 4357230 | 24162011.1 |        |
| 4357474 | Sumitomo Electric Hardmetal Corp.                                                           | 29/03/2022 | 4357474 | 22935160.6 |        |
| 4357560 | Bestway Inflatables & Material Corp.                                                        | 29/03/2019 | 4357560 | 24162821.3 |        |
| 4357892 | Honor Device Co., Ltd.                                                                      | 26/04/2022 | 4357892 | 22851625.8 |        |
| 4357975 | ORANGE                                                                                      | 17/10/2022 | 4357975 | 22306570.7 |        |
| 4358204 | LG Energy Solution, Ltd.                                                                    | 14/10/2022 | 4358204 | 22881421.6 |        |
| 4358263 | LG ENERGY SOLUTION, LTD.                                                                    | 24/03/2023 | 4358263 | 23824053.5 |        |
| 4358337 | Huawei Digital Power Technologies Co., Ltd.                                                 | 19/10/2023 | 4358337 | 23204674.8 |        |
| 4358455 | CICT Connected and Intelligent Technologies Co., Ltd.                                       | 29/07/2022 | 4358455 | 22852060.7 |        |
| 4358905 | Purewick Corporation                                                                        | 22/06/2022 | 4358905 | 22741940.5 |        |
| 4358986 | Laboratoires De Biologie Vegetale Yves Rocher                                               | 17/06/2022 | 4358986 | 22741347.3 | French |

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| 4359328 | Thermo Fisher Scientific Oy                                                               | 21/06/2022 | 4359328 | 22740430.8 |        |
| 4359479 | Rohm and Haas Company                                                                     | 20/05/2022 | 4359479 | 22751178.9 |        |
|         | Dow Global Technologies LLC                                                               |            |         |            |        |
| 4359704 | Kal-Fire Beheer B.V.                                                                      | 22/06/2022 | 4359704 | 22733676.5 |        |
| 4360297 | Microsoft Technology Licensing, LLC                                                       | 23/05/2022 | 4360297 | 22735683.9 |        |
| 4360505 | Anji Longwin Furniture Co., Ltd.                                                          | 16/08/2022 | 4360505 | 22947077.8 |        |
| 4360793 | KABUSHIKI KAISHA KOBE SEIKO<br>SHO (KOBE STEEL, LTD.)                                     | 29/06/2022 | 4360793 | 22849131.2 |        |
| 4360843 | BRIDGESTONE CORPORATION                                                                   | 24/11/2021 | 4360843 | 21947218.0 |        |
| 4360846 | BRIDGESTONE CORPORATION                                                                   | 24/11/2021 | 4360846 | 21947221.4 |        |
| 4360948 | Faurecia Sièges d'Automobile                                                              | 26/10/2023 | 4360948 | 23206093.9 | French |
| 4360993 | DAF Trucks N.V.                                                                           | 28/09/2023 | 4360993 | 23200503.3 |        |
| 4361022 | Gulfstream Aerospace Corporation                                                          | 24/10/2023 | 4361022 | 23205395.9 |        |
| 4361032 | Textron Innovations Inc.                                                                  | 12/11/2021 | 4361032 | 24163761.0 |        |
| 4361127 | Provepharm Life Solutions                                                                 | 01/04/2021 | 4361127 | 24162955.9 | French |
| 4361359 | Deere & Company                                                                           | 19/10/2023 | 4361359 | 23204575.7 |        |
| 4361714 | Boe Technology Group Co., Ltd.<br>Hefei Boe Display Technology Co., Ltd.                  | 28/11/2019 | 4361714 | 24162772.8 |        |
| 4361743 | Deere & Company                                                                           | 28/10/2022 | 4361743 | 22204419.0 |        |
| 4362610 | Ushio Denki Kabushiki Kaisha                                                              | 24/10/2023 | 4362610 | 23205511.1 |        |
| 4362767 | Karl Storz SE & Co. KG                                                                    | 13/07/2022 | 4362767 | 22751329.8 |        |
| 4363317 | Safran Seats GB Limited                                                                   | 28/06/2022 | 4363317 | 22741552.8 |        |
| 4363647 | Jetronica Limited                                                                         | 01/07/2022 | 4363647 | 22741556.9 |        |
| 4364127 | Zumtobel Lighting GmbH                                                                    | 22/06/2022 | 4364127 | 22738382.5 | German |
| 4364775 | Fisher & Paykel Healthcare Limited                                                        | 19/06/2019 | 4364775 | 24152970.0 |        |
| 4364859 | CONTEMPORARY AMPEREX<br>TECHNOLOGY (HONG KONG)<br>LIMITED                                 | 14/02/2023 | 4364859 | 23765736.6 |        |
| 4364962 | BRIDGESTONE CORPORATION                                                                   | 02/11/2021 | 4364962 | 21948479.7 |        |
| 4364965 | BRIDGESTONE CORPORATION                                                                   | 18/11/2021 | 4364965 | 21948489.6 |        |
| 4364970 | BRIDGESTONE CORPORATION                                                                   | 17/11/2021 | 4364970 | 21948487.0 |        |
| 4364976 | BRIDGESTONE CORPORATION                                                                   | 17/11/2021 | 4364976 | 21948486.2 |        |
| 4364979 | BRIDGESTONE CORPORATION                                                                   | 02/11/2021 | 4364979 | 21948482.1 |        |
| 4364980 | BRIDGESTONE CORPORATION                                                                   | 02/11/2021 | 4364980 | 21948483.9 |        |
| 4365083 | The Boeing Company                                                                        | 01/09/2023 | 4365083 | 23194808.4 |        |
| 4365404 | Küster Holding GmbH                                                                       | 07/11/2023 | 4365404 | 23208170.3 | German |
| 4365902 | Samsung Electronics Co., Ltd.                                                             | 07/11/2023 | 4365902 | 23208220.6 |        |
| 4366033 | Hithium Tech HK Limited                                                                   | 01/11/2023 | 4366033 | 23207254.6 |        |
| 4366106 | Huawei Digital Power Technologies Co.,<br>Ltd.                                            | 25/10/2023 | 4366106 | 23205791.9 |        |
| 4366138 | Huawei Digital Power Technologies Co.,<br>Ltd.                                            | 26/10/2023 | 4366138 | 23206224.0 |        |
| 4366302 | Dolby Laboratories Licensing Corporation                                                  | 28/01/2021 | 4366302 | 24164283.4 |        |
| 4366850 | Universal City Studios LLC                                                                | 21/06/2022 | 4366850 | 22744008.8 |        |
| 4366968 | VOLVO TRUCK CORPORATION                                                                   | 06/07/2021 | 4366968 | 21743074.3 |        |
| 4366984 | Stellantis Auto SAS                                                                       | 25/05/2022 | 4366984 | 22733195.6 | French |
| 4368060 | Luxottica Group S.p.A.                                                                    | 07/11/2023 | 4368060 | 23208302.2 |        |
| 4368145 | 3Shape A/S                                                                                | 31/10/2023 | 4368145 | 23207051.6 |        |
| 4368165 | Bullfrog International, LC                                                                | 06/11/2023 | 4368165 | 23208067.1 |        |
| 4368229 | Fisher & Paykel Healthcare Limited                                                        | 27/05/2009 | 4368229 | 24153536.8 |        |
| 4368390 | TOPPAN INC.                                                                               | 28/06/2022 | 4368390 | 22858175.7 |        |
| 4368403 | The Boeing Company                                                                        | 03/11/2023 | 4368403 | 23207763.6 |        |
| 4368669 | DIC Corporation                                                                           | 02/06/2022 | 4368669 | 22837366.8 |        |
| 4368807 | Küster Holding GmbH                                                                       | 07/11/2023 | 4368807 | 23208164.6 | German |
| 4368882 | Zumtobel Lighting GmbH                                                                    | 08/11/2022 | 4368882 | 22205949.5 |        |
| 4369018 | JEOL Ltd.                                                                                 | 01/11/2023 | 4369018 | 23207310.6 |        |
| 4369050 | China National Petroleum Corporation<br>BGP Inc., China National Petroleum<br>Corporation | 29/06/2022 | 4369050 | 22913241.0 |        |
| 4369451 | Contemporary Amperex Technology (Hong<br>Kong) Limited                                    | 17/01/2022 | 4369451 | 22919550.8 |        |
| 4370040 | Covidien LP                                                                               | 11/07/2022 | 4370040 | 22747437.6 |        |

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| 4370936 | GENENTECH, INC.                                                | 12/07/2022 | 4370936 | 22748726.1 | French |
| 4371032 | Linxens Holding                                                | 11/07/2022 | 4371032 | 22750801.7 |        |
| 4371507 | Penumbra, Inc.                                                 | 10/11/2023 | 4371507 | 23209086.0 |        |
| 4371520 | Covidien LP                                                    | 31/03/2021 | 4371520 | 24166275.8 |        |
| 4371662 | NOF Corporation                                                | 30/06/2022 | 4371662 | 22841961.0 |        |
| 4371742 | Syntegon Packaging Solutions B.V.                              | 17/11/2022 | 4371742 | 22207956.8 | German |
| 4371786 | Sumitomo Rubber Industries, Ltd.                               | 21/01/2020 | 4371786 | 24166965.4 |        |
| 4371851 | Wonderland Switzerland AG                                      | 14/11/2023 | 4371851 | 23209702.2 |        |
| 4371886 | Goodrich Corporation                                           | 13/11/2023 | 4371886 | 23209472.2 |        |
| 4372265 | De Meester, Kenny                                              | 06/11/2023 | 4372265 | 23208007.7 |        |
|         | De Meester, Richard Jeanne F                                   |            |         |            | French |
| 4372281 | ANSALDO ENERGIA S.p.A.                                         | 18/11/2022 | 4372281 | 22425055.5 |        |
| 4372435 | Commissariat à l'Energie Atomique et aux Energies Alternatives | 16/11/2023 | 4372435 | 23210351.5 |        |
| 4372456 | Oakley, Inc.                                                   | 21/11/2023 | 4372456 | 23211207.8 |        |
| 4372552 | Hitachi Energy Ltd                                             | 16/11/2022 | 4372552 | 22207780.2 |        |
| 4372728 | Diehl AKO Stiftung & Co. KG                                    | 16/11/2023 | 4372728 | 23210263.2 | German |
| 4372883 | Hithium Tech HK Limited                                        | 30/12/2022 | 4372883 | 22940962.8 |        |
| 4372941 | Schneider Electric IT Corporation                              | 30/10/2023 | 4372941 | 23206788.4 |        |
| 4373682 | VOLKSWAGEN                                                     | 07/06/2022 | 4373682 | 22731696.5 |        |
|         | AKTIENGESELLSCHAFT                                             |            |         |            |        |
| 4374240 | Fitbit LLC                                                     | 19/07/2021 | 4374240 | 21751947.9 | German |
| 4374368 | Mitsubishi Electric Corporation                                | 22/04/2022 | 4374368 | 22726840.6 |        |
| 4375100 | Hsin Chong Machinery Works Co., Ltd.                           | 03/05/2023 | 4375100 | 23171371.0 |        |
|         | Fuzhou Mingfang Automobile Parts Industry Co., Ltd.            |            |         |            |        |
|         |                                                                |            |         |            |        |
| 4375161 | Techtronic Cordless GP                                         | 23/11/2023 | 4375161 | 23211843.0 |        |
| 4375187 | Rockwell Collins, Inc.                                         | 16/11/2023 | 4375187 | 23210409.1 |        |
| 4375195 | Airbus Operations Limited                                      | 21/11/2023 | 4375195 | 23211202.9 |        |
| 4375358 | Kitazato Corporation                                           | 19/07/2022 | 4375358 | 22845907.9 |        |
| 4375571 | Beckett Thermal Solutions                                      | 03/11/2023 | 4375571 | 23207646.3 |        |
| 4375599 | Samsung Electronics Co., Ltd.                                  | 04/11/2022 | 4375599 | 22925087.3 |        |
| 4375634 | Chinalco Materials Application Research Institute Co., Ltd     | 04/07/2023 | 4375634 | 23828140.6 |        |
|         | Chinalco Advanced Manufacturing Co., Ltd.                      |            |         |            |        |
|         |                                                                |            |         |            |        |
|         |                                                                |            |         |            |        |
| 4375688 | LG ENERGY SOLUTION, LTD.                                       | 21/11/2022 | 4375688 | 22904522.4 |        |
| 4375898 | Samsung Life Public Welfare Foundation                         | 24/11/2023 | 4375898 | 23211932.1 |        |
| 4376207 | LG ENERGY SOLUTION, LTD.                                       | 12/06/2023 | 4376207 | 23824167.3 |        |
| 4376346 | ZTE Corporation                                                | 17/05/2019 | 4376346 | 24169981.8 |        |
| 4376361 | nChain Licensing AG                                            | 06/03/2019 | 4376361 | 24156207.3 |        |
| 4377166 | VALEO SYSTEMES D'ESSUYAGE                                      | 29/07/2022 | 4377166 | 22754443.4 | French |
| 4377179 | CARIAD SE                                                      | 24/11/2021 | 4377179 | 21820178.8 |        |
| 4377537 | Stellantis Auto SAS                                            | 21/06/2022 | 4377537 | 22744261.3 |        |
| 4378073 | Rolls-Royce Deutschland Ltd & Co KG                            | 12/07/2022 | 4378073 | 22751043.5 |        |
| 4378258 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.           | 12/08/2022 | 4378258 | 22855538.9 |        |
| 4378397 | Reach Surgical, Inc.                                           | 15/07/2022 | 4378397 | 22848298.0 |        |
| 4378695 | Ricoh Company, Ltd.                                            | 24/11/2023 | 4378695 | 23211926.3 |        |
| 4378763 | Bürstner GmbH & CO. KG                                         | 30/11/2023 | 4378763 | 23213305.8 |        |
| 4378822 | Airbus Operations GmbH                                         | 30/11/2022 | 4378822 | 22210552.0 |        |
| 4378825 | Airbus Operations GmbH                                         | 30/11/2022 | 4378825 | 22210465.5 |        |
| 4378839 | Tetra Laval Holdings & Finance S.A.                            | 13/11/2023 | 4378839 | 23209294.0 |        |
| 4379209 | Siemens Gamesa Renewable Energy A/S                            | 30/11/2022 | 4379209 | 22210466.3 |        |
| 4379211 | Tetra Laval Holdings & Finance S.A.                            | 27/11/2023 | 4379211 | 23212197.0 |        |
| 4379282 | Vero Duco N.V.                                                 | 30/11/2023 | 4379282 | 23213414.8 |        |
| 4379320 | STMicroelectronics S.r.l.                                      | 24/11/2023 | 4379320 | 23211935.4 |        |
| 4379457 | Nanjing Lycore Technologies Co., Ltd.                          | 09/06/2022 | 4379457 | 22857396.0 |        |
| 4379486 | KNDS France                                                    | 07/11/2023 | 4379486 | 23208175.2 |        |
| 4380047 | Samsung Electronics Co., Ltd.                                  | 11/10/2023 | 4380047 | 23832944.5 |        |
| 4380139 | Atos Public Safety LLC                                         | 29/11/2022 | 4380139 | 22210323.6 |        |
| 4380717 | Evonik Operations GmbH                                         | 20/07/2022 | 4380717 | 22751721.6 |        |

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| 4381000 | 3M Innovative Properties Company                                                                            | 29/06/2022 | 4381000 | 22750894.2 |        |
| 4381291 | Glycanostics s.r.o.                                                                                         | 05/08/2022 | 4381291 | 22761219.9 |        |
| 4381433 | InterDigital CE Patent Holdings, SAS                                                                        | 29/07/2022 | 4381433 | 22760690.2 |        |
| 4382065 | Orthosoft ULC                                                                                               | 15/11/2023 | 4382065 | 23210220.2 |        |
| 4382432 | General Electric Company                                                                                    | 01/11/2023 | 4382432 | 23207241.3 |        |
| 4382752 | Hand Held Products, Inc.                                                                                    | 06/11/2023 | 4382752 | 23208055.6 |        |
| 4382820 | GD Midea Heating & Ventilating Equipment Co., Ltd.<br>HEFEI MIDEA HEATING & VENTILATING EQUIPMENT CO., LTD. | 26/07/2022 | 4382820 | 22851971.6 |        |
| 4382938 | LG Energy Solution, Ltd.                                                                                    | 08/11/2022 | 4382938 | 22893150.7 |        |
| 4383035 | Yanmar Holdings Co., Ltd.                                                                                   | 22/11/2023 | 4383035 | 23211369.6 |        |
| 4384491 | LANXESS Deutschland GmbH                                                                                    | 11/08/2022 | 4384491 | 22764731.0 | German |
| 4385093 | Raytheon Company                                                                                            | 03/05/2022 | 4385093 | 22724370.6 |        |
| 4385198 | LG Electronics Inc.                                                                                         | 23/08/2022 | 4385198 | 22867595.5 |        |
| 4385396 | HYUNDAI MOTOR COMPANY<br>Kia Corporation                                                                    | 13/09/2023 | 4385396 | 23197123.5 |        |
| 4385633 | Intelligrated Headquarters, LLC                                                                             | 07/11/2023 | 4385633 | 23208135.6 |        |
| 4385752 | Sumitomo Rubber Industries, Ltd.                                                                            | 10/11/2023 | 4385752 | 23208995.3 |        |
| 4385893 | HYUNDAI MOTOR COMPANY<br>Kia Corporation                                                                    | 19/09/2023 | 4385893 | 23198212.5 |        |
| 4386221 | Termax Company                                                                                              | 14/12/2023 | 4386221 | 23216493.9 |        |
| 4386235 | HONDA MOTOR CO., LTD.                                                                                       | 29/09/2021 | 4386235 | 21959348.0 |        |
| 4386321 | Yamaha Hatsudoki Kabushiki Kaisha                                                                           | 24/11/2023 | 4386321 | 23211948.7 |        |
| 4386330 | WAYMO LLC                                                                                                   | 24/11/2023 | 4386330 | 23212115.2 |        |
| 4387155 | Tata Consultancy Services Limited                                                                           | 01/11/2023 | 4387155 | 23207228.0 |        |
| 4387174 | LG Electronics Inc.                                                                                         | 04/11/2014 | 4387174 | 24168136.0 |        |
| 4387535 | Covidien LP                                                                                                 | 15/08/2022 | 4387535 | 22764872.2 |        |
| 4388046 | Covestro Deutschland AG                                                                                     | 11/08/2022 | 4388046 | 22764735.1 | German |
| 4388202 | Grundfos Holding A/S                                                                                        | 11/08/2022 | 4388202 | 22764722.9 |        |
| 4389062 | Huvitz Co., Ltd.                                                                                            | 24/11/2023 | 4389062 | 23212081.6 |        |
| 4389677 | TADANO LTD.                                                                                                 | 18/08/2022 | 4389677 | 22858522.0 |        |
| 4390171 | Stellantis e-Transmissions NV                                                                               | 18/02/2021 | 4390171 | 24174377.2 |        |
| 4390386 | Contemporary Amperex Technology (Hong Kong) Limited                                                         | 11/10/2022 | 4390386 | 22880298.9 |        |
| 4390757 | Contemporary Amperex Technology (Hong Kong) Limited                                                         | 20/03/2023 | 4390757 | 23801651.3 |        |
| 4390805 | Procore Technologies, Inc.                                                                                  | 11/11/2019 | 4390805 | 24150118.8 |        |
| 4390920 | Huawei Technologies Co. Ltd.                                                                                | 05/05/2018 | 4390920 | 24156328.7 |        |
| 4391361 | Trina Solar Spain, S.L.U.                                                                                   | 06/12/2023 | 4391361 | 23214603.5 |        |
| 4391490 | Nokia Solutions and Networks Oy                                                                             | 22/12/2022 | 4391490 | 22215928.7 |        |
| 4391771 | Samsung Display Co., Ltd.                                                                                   | 09/11/2023 | 4391771 | 23208930.0 |        |
| 4392266 | SAF-HOLLAND GmbH                                                                                            | 24/08/2022 | 4392266 | 22769175.5 | German |
| 4392381 | AGC Glass Europe                                                                                            | 18/08/2022 | 4392381 | 22768326.5 |        |
| 4393288 | Nanjing Chervon Industry Co., Ltd.                                                                          | 14/11/2023 | 4393288 | 23209570.3 |        |
| 4393357 | B/E Aerospace, Inc.                                                                                         | 28/01/2022 | 4393357 | 24177107.0 |        |
| 4393725 | Sumitomo Rubber Industries, Ltd.                                                                            | 30/11/2023 | 4393725 | 23213440.3 |        |
| 4393746 | Hyundai Mobis Co., Ltd.                                                                                     | 09/10/2023 | 4393746 | 23202309.3 |        |
| 4394284 | Zhejiang Geely Holding Group Co., Ltd.<br>Zhejiang Liankong Technologies Co., Ltd                           | 22/06/2022 | 4394284 | 22874317.5 |        |
| 4394477 | HAMAMATSU PHOTONICS K.K.                                                                                    | 08/11/2023 | 4394477 | 23208497.0 |        |
| 4394563 | Honor Device Co., Ltd.                                                                                      | 13/04/2023 | 4394563 | 23829614.9 |        |
| 4394825 | Samsung Electro-Mechanics Co., Ltd.                                                                         | 24/10/2023 | 4394825 | 23205499.9 |        |
| 4395114 | HYUNDAI MOTOR COMPANY<br>Kia Corporation                                                                    | 08/11/2023 | 4395114 | 23208543.1 |        |
| 4395169 | Tencent Technology (Shenzhen) Company Limited                                                               | 23/05/2023 | 4395169 | 23834530.0 |        |
| 4395283 | Samsung Electronics Co., Ltd.                                                                               | 24/08/2022 | 4395283 | 22876680.4 |        |
| 4395526 | Yara International ASA                                                                                      | 31/08/2022 | 4395526 | 22769727.3 |        |
| 4395662 | Covidien LP                                                                                                 | 16/08/2022 | 4395662 | 22764881.3 |        |
| 4396527 | Smart Digital Optics Pty Limited                                                                            | 02/09/2022 | 4396527 | 22862381.5 |        |
| 4397508 | BRIDGESTONE CORPORATION                                                                                     | 07/06/2022 | 4397508 | 22863980.3 |        |

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| 4397689 | Bioplastics Innovations Limited                     | 01/09/2022 | 4397689 | 22865064.4 |        |
| 4397876 | NTN Corporation                                     | 10/08/2022 | 4397876 | 22864216.1 |        |
| 4397955 | Contemporary Amperex Technology (Hong Kong) Limited | 27/04/2023 | 4397955 | 23789483.7 |        |
| 4398019 | Apple Inc.                                          | 04/02/2019 | 4398019 | 24176600.5 |        |
| 4398280 | Huawei Technologies Co., Ltd.                       | 31/10/2023 | 4398280 | 23869279.2 |        |
| 4398552 | Marvell Asia Pte, Ltd.                              | 16/03/2020 | 4398552 | 24175714.5 |        |
| 4398774 | Delica AG                                           | 23/08/2022 | 4398774 | 22768735.7 | German |
| 4398813 | Covidien LP                                         | 06/09/2022 | 4398813 | 22778053.3 |        |
| 4398815 | Boston Scientific Scimed, Inc.                      | 07/09/2022 | 4398815 | 22778157.2 |        |
| 4399031 | OMV Downstream GmbH                                 | 06/09/2022 | 4399031 | 22773491.0 |        |
| 4399216 | Zoetis Services LLC                                 | 02/09/2022 | 4399216 | 22777846.1 |        |
| 4399670 | SMARKIA ENERGY, S.L.                                | 06/09/2022 | 4399670 | 22772984.5 |        |
| 4399977 | Nippon Beet Sugar Manufacturing Co., Ltd.           | 05/07/2023 | 4399977 | 23835560.6 |        |
| 4400071 | 3C                                                  | 10/01/2023 | 4400071 | 23305031.9 |        |
| 4400083 | LOCI Orthopaedics Limited                           | 28/02/2020 | 4400083 | 24177974.3 |        |
| 4400366 | Hyundai Mobis Co., Ltd.                             | 19/05/2023 | 4400366 | 23174201.6 |        |
| 4400555 | DAIKIN INDUSTRIES, LTD.                             | 20/07/2022 | 4400555 | 22867089.9 |        |
| 4400744 | Kanzaki Kokyukoki Mfg. Co., Ltd.                    | 16/10/2019 | 4400744 | 23203042.9 |        |
| 4400884 | NKT HV Cables AB                                    | 16/01/2023 | 4400884 | 23151727.7 |        |
| 4400903 | LG Electronics Inc.                                 | 23/08/2022 | 4400903 | 22942836.2 |        |
| 4401046 | Deere & Company                                     | 11/12/2023 | 4401046 | 23215421.1 | German |
| 4402395 | SEW-EURODRIVE GmbH & Co. KG                         | 06/09/2022 | 4402395 | 22772982.9 | German |
| 4402884 | CARIAD SE                                           | 17/11/2021 | 4402884 | 21815447.4 |        |
| 4404172 | BRIDGESTONE CORPORATION                             | 26/07/2022 | 4404172 | 22900851.1 |        |
| 4404385 | KABUSHIKI KAISHA TOSHIBA                            | 02/08/2023 | 4404385 | 23189211.8 |        |
| 4404417 | LG Energy Solution, Ltd.                            | 17/10/2022 | 4404417 | 22883918.9 |        |
| 4404464 | Rohm Co., Ltd.                                      | 18/11/2014 | 4404464 | 24180651.2 |        |
| 4404722 | DAIKIN INDUSTRIES, LTD.                             | 15/09/2022 | 4404722 | 22870024.1 |        |
| 4405195 | Mercedes-Benz Group AG                              | 14/09/2022 | 4405195 | 22782709.4 | German |
| 4405693 | ebm-papst Mulfingen GmbH & Co. KG                   | 15/09/2022 | 4405693 | 22786341.2 | German |
| 4406691 | Contemporary Amperex Technology (Hong Kong) Limited | 13/03/2023 | 4406691 | 23761409.4 |        |
| 4406796 | NISSAN MOTOR CO., LTD.                              | 23/09/2021 | 4406796 | 21957723.6 |        |
|         | Renault s.a.s                                       |            |         |            |        |
| 4406814 | Casco Signal Ltd.                                   | 09/11/2022 | 4406814 | 22903121.6 |        |
| 4407243 | DAIKIN INDUSTRIES, LTD.                             | 21/11/2023 | 4407243 | 23864106.2 |        |
| 4407603 | JVCKENWOOD Corporation                              | 13/09/2022 | 4407603 | 22886496.3 |        |
| 4407616 | Samsung Electronics Co., Ltd.                       | 13/11/2013 | 4407616 | 24182511.6 |        |
| 4407624 | Tata Consultancy Services Limited                   | 01/11/2023 | 4407624 | 23207229.8 |        |
| 4407632 | MedVision AG                                        | 27/01/2023 | 4407632 | 23153704.4 | German |
| 4407647 | Delta Dore                                          | 25/01/2024 | 4407647 | 24154009.5 | French |
| 4408167 | Paragon Pet Products Europe B.V.                    | 29/09/2022 | 4408167 | 22786544.1 |        |
| 4408302 | Covidien LP                                         | 20/09/2022 | 4408302 | 22777353.8 |        |
| 4408957 | Shell Internationale Research Maatschappij B.V.     | 26/09/2022 | 4408957 | 22777255.5 |        |
| 4409074 | Caterpillar Inc.                                    | 26/09/2022 | 4409074 | 22800389.3 |        |
| 4410618 | Great Wall Motor Company Limited                    | 29/09/2022 | 4410618 | 22875058.4 |        |
| 4410682 | Airbus Operations Limited                           | 19/01/2024 | 4410682 | 24152942.9 |        |
| 4411595 | Tata Consultancy Services Limited                   | 24/01/2024 | 4411595 | 24153677.0 |        |
| 4411634 | Contemporary Amperex Technology (Hong Kong) Limited | 06/04/2023 | 4411634 | 23744351.0 |        |
| 4411676 | Innovative Technology Limited                       | 03/02/2023 | 4411676 | 23154972.6 |        |
| 4412340 | LG Electronics Inc.                                 | 18/11/2022 | 4412340 | 22896135.5 |        |
| 4413551 | Johnson Controls Tyco IP Holdings LLP               | 03/10/2022 | 4413551 | 22802412.1 |        |
| 4413949 | Shining 3D Tech Co., Ltd.                           | 28/04/2023 | 4413949 | 23799240.9 |        |
| 4414097 | Toppa Packaging Americas Holdings, Inc.             | 12/11/2021 | 4414097 | 24184416.6 |        |
| 4414260 | PRATT & WHITNEY CANADA CORP.                        | 09/02/2024 | 4414260 | 24156938.3 |        |
| 4414305 | Otis Elevator Company                               | 02/02/2024 | 4414305 | 24155569.7 |        |
| 4414405 | LG Chem, Ltd.                                       | 29/11/2022 | 4414405 | 22899150.1 |        |
| 4414659 | Honeywell International Inc.                        | 15/11/2023 | 4414659 | 23210053.7 |        |
| 4414673 | ABB SCHWEIZ AG                                      | 10/02/2023 | 4414673 | 23155987.3 |        |

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| 4414758 | Nanjing Lycore Technologies Co., Ltd.                                   | 12/02/2024 | 4414758 | 24157194.2 |        |
| 4415357 | LG Electronics Inc.                                                     | 17/11/2020 | 4415357 | 24185088.2 |        |
| 4415586 | Jønsson, Uffe H                                                         | 10/10/2022 | 4415586 | 22800260.6 |        |
| 4416325 | Trützschler Group SE                                                    | 14/09/2022 | 4416325 | 22789196.7 | German |
| 4416326 | Trützschler Group SE                                                    | 14/09/2022 | 4416326 | 22789194.2 | German |
| 4417288 | Filtration Group GmbH                                                   | 31/01/2024 | 4417288 | 24154971.6 | German |
| 4417445 | NHK Spring Co., Ltd.                                                    | 09/03/2018 | 4417445 | 24186852.0 |        |
| 4417517 | The Boeing Company                                                      | 22/01/2024 | 4417517 | 24153224.1 |        |
| 4417882 | Samsung Electronics Co., Ltd.                                           | 15/11/2022 | 4417882 | 22919001.2 |        |
| 4417883 | Samsung Electronics Co., Ltd.                                           | 29/11/2022 | 4417883 | 22925100.4 |        |
| 4419863 | Airshare, Inc.                                                          | 20/10/2022 | 4419863 | 22882149.2 |        |
| 4420162 | International Business Machines Corporation                             | 14/10/2022 | 4420162 | 22801800.8 |        |
| 4420703 | Fisher & Paykel Healthcare Limited                                      | 12/04/2019 | 4420703 | 24165464.9 |        |
| 4420707 | ResMed Pty Ltd                                                          | 18/03/2020 | 4420707 | 24169517.0 |        |
| 4420760 | Daikin Industries, Ltd.                                                 | 10/11/2022 | 4420760 | 22907097.4 |        |
| 4420826 | Kosmek Ltd.                                                             | 12/09/2022 | 4420826 | 22883256.4 |        |
| 4421450 | HERE Global B.V.                                                        | 26/02/2024 | 4421450 | 24159563.6 |        |
| 4421552 | Fuyao Glass Industry Group Co., Ltd.                                    | 23/11/2021 | 4421552 | 21965006.6 |        |
| 4421553 | Magic Leap, Inc.                                                        | 29/05/2015 | 4421553 | 24186445.3 |        |
| 4421583 | Samsung Electronics Co., Ltd.                                           | 28/09/2022 | 4421583 | 22887386.5 |        |
| 4421745 | T-Mobile Innovations LLC                                                | 02/02/2024 | 4421745 | 24155572.1 |        |
| 4421950 | LG Energy Solution, Ltd.                                                | 29/06/2023 | 4421950 | 23831937.0 |        |
| 4422101 | Telefonaktiebolaget LM Ericsson (publ)                                  | 01/11/2019 | 4422101 | 24186972.6 |        |
| 4422361 | Samsung Electronics Co., Ltd.                                           | 09/02/2023 | 4422361 | 23760298.2 |        |
| 4422373 | Samsung Electronics Co., Ltd.                                           | 24/11/2022 | 4422373 | 22922341.7 |        |
| 4422465 | Kingsway Enterprises (UK) Limited                                       | 27/10/2022 | 4422465 | 22800739.9 |        |
| 4422818 | Maus Italia S.P.A.                                                      | 12/10/2022 | 4422818 | 22800842.1 |        |
| 4423965 | ASSA ABLOY AB                                                           | 26/10/2022 | 4423965 | 22809434.8 |        |
| 4424597 | Airbus Canada Limited Partnership                                       | 27/02/2024 | 4424597 | 24160118.6 | French |
| 4425366 | Dassault Systèmes Americas Corp.                                        | 27/02/2024 | 4425366 | 24160107.9 |        |
| 4425497 | Hamilton Sundstrand Corporation                                         | 22/02/2024 | 4425497 | 24159195.7 |        |
| 4425740 | Samsung SDI Co., Ltd.                                                   | 25/10/2023 | 4425740 | 23205854.5 |        |
| 4425911 | LG Electronics Inc.                                                     | 04/11/2021 | 4425911 | 21963371.6 |        |
| 4426142 | Philip Morris Products S.A.                                             | 03/11/2022 | 4426142 | 22813938.2 |        |
| 4426402 | University of Cincinnati Children's Hospital Medical Center             | 04/11/2022 | 4426402 | 22821764.2 |        |
|         | B.G. Negev Technologies and Applications Ltd., at Ben-Gurion University |            |         |            |        |
|         | Mor Research Applications Ltd.                                          |            |         |            |        |
| 4426548 | Pirelli Tyre S.p.A.                                                     | 03/11/2022 | 4426548 | 22805961.4 |        |
| 4426598 | LudwigG-Golf GmbH                                                       | 01/11/2022 | 4426598 | 22813467.2 | German |
| 4426601 | Haas Kraan B.V.                                                         | 02/11/2022 | 4426601 | 22799999.2 |        |
| 4426794 | Tessenderlo Group NV                                                    | 02/11/2022 | 4426794 | 22813501.8 |        |
| 4426856 | UCL Business Ltd                                                        | 03/11/2022 | 4426856 | 22801526.9 |        |
| 4426976 | Aalberts hfc B.V.                                                       | 04/11/2022 | 4426976 | 22797804.6 |        |
| 4427112 | SABIC Global Technologies B.V.                                          | 03/11/2022 | 4427112 | 22817528.7 |        |
| 4427549 | ISTEQ B.V.                                                              | 03/11/2022 | 4427549 | 22812633.0 |        |
|         | ISTEQ Group Holding B.V.                                                |            |         |            |        |
| 4427653 | Woan Technology (Shenzhen) Co., Ltd.                                    | 04/03/2024 | 4427653 | 24161090.6 |        |
| 4427917 | Spirit AeroSystems, Inc.                                                | 07/03/2024 | 4427917 | 24162106.9 |        |
| 4427922 | Trespa International B.V.                                               | 01/03/2024 | 4427922 | 24160948.6 |        |
| 4428658 | Sony Interactive Entertainment Inc.                                     | 16/02/2024 | 4428658 | 24158093.5 |        |
| 4428663 | NXP B.V.                                                                | 07/03/2023 | 4428663 | 23305301.6 |        |
| 4428674 | Google LLC                                                              | 30/11/2021 | 4428674 | 24188018.6 |        |
| 4428701 | Samsung Electronics Co., Ltd.                                           | 18/01/2024 | 4428701 | 24700058.1 |        |
| 4428817 | COGNEX CORPORATION                                                      | 10/02/2021 | 4428817 | 24184389.5 |        |
| 4429518 | Haleon UK IP Limited                                                    | 04/11/2022 | 4429518 | 22813979.6 |        |
| 4429525 | Collectors Universe Inc.                                                | 12/04/2022 | 4429525 | 22720216.5 |        |
| 4429554 | Carestream Health, Inc.                                                 | 09/11/2022 | 4429554 | 22830635.3 |        |
| 4429621 | Syntegon Technology GmbH                                                | 03/11/2022 | 4429621 | 22814304.6 | German |
| 4429707 | Nerviano Medical Sciences S.r.l.                                        | 04/11/2022 | 4429707 | 22817113.8 |        |

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| 4429725 | VESTLANDETS                                                                 | 11/11/2022 | 4429725 | 22802192.9 |        |
| 4430143 | INNOVASJONSSSELSKAP AS (VIS)                                                |            |         |            |        |
|         | thyssenkrupp Uhde Engineering Services GmbH                                 | 02/11/2022 | 4430143 | 22813481.3 | German |
|         | thyssenkrupp Uhde GmbH                                                      |            |         |            |        |
|         | thyssenkrupp AG                                                             |            |         |            |        |
| 4430144 | thyssenkrupp Uhde GmbH                                                      | 02/11/2022 | 4430144 | 22813482.1 | German |
|         | thyssenkrupp Uhde Engineering Services GmbH                                 |            |         |            |        |
|         | thyssenkrupp AG                                                             |            |         |            |        |
| 4430290 | Horse Powertrain Solutions, S.L.U.                                          | 03/11/2022 | 4430290 | 22813228.8 | French |
| 4430398 | 10X Genomics, Inc.                                                          | 09/11/2022 | 4430398 | 22821819.4 |        |
| 4430413 | TWAICE Technologies GmbH                                                    | 11/11/2022 | 4430413 | 22817610.3 | German |
| 4430637 | Kernkraftwerk Gösgen-Däniken AG                                             | 10/11/2022 | 4430637 | 22814101.6 |        |
| 4430770 | Technische Universiteit Delft                                               | 11/11/2022 | 4430770 | 22802747.0 |        |
|         | Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO |            |         |            |        |
| 4431268 | Spirit AeroSystems, Inc.                                                    | 14/03/2024 | 4431268 | 24163594.5 |        |
| 4431444 | FQ IP AB                                                                    | 17/03/2023 | 4431444 | 23162641.7 |        |
| 4431661 | Wirtgen GmbH                                                                | 11/03/2024 | 4431661 | 24162648.0 | German |
| 4431886 | Deutsches Zentrum für Luft- und Raumfahrt e.V.                              | 28/02/2024 | 4431886 | 24160175.6 | German |
| 4431897 | Redline Detection, LLC                                                      | 22/11/2017 | 4431897 | 24187379.3 |        |
| 4431920 | LG Energy Solution, Ltd.                                                    | 08/11/2022 | 4431920 | 22890487.6 |        |
| 4432059 | Avago Technologies International Sales Pte. Limited                         | 07/03/2024 | 4432059 | 24162129.1 |        |
| 4432816 | Greenwall Solutions B.V.                                                    | 08/11/2022 | 4432816 | 22801577.2 |        |
| 4432923 | Mayo Foundation for Medical Education and Research                          | 15/11/2022 | 4432923 | 22821786.5 |        |
| 4433124 | SHL Medical AG                                                              | 03/11/2022 | 4433124 | 22817529.5 |        |
| 4433186 | LEGO A/S                                                                    | 15/11/2022 | 4433186 | 22818257.2 |        |
| 4433221 | Chemcar Europe NV                                                           | 17/11/2022 | 4433221 | 22826196.2 |        |
| 4433257 | Renishaw plc                                                                | 01/11/2022 | 4433257 | 22800743.1 |        |
| 4433289 | VMI Holland B.V.                                                            | 03/11/2022 | 4433289 | 22800847.0 |        |
| 4433290 | COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN                              | 10/11/2022 | 4433290 | 22817204.5 | French |
| 4433402 | INVENTIO AG                                                                 | 16/11/2022 | 4433402 | 22818020.4 |        |
| 4433467 | Syngenta Crop Protection AG                                                 | 15/11/2022 | 4433467 | 22818305.9 |        |
| 4433537 | Pirelli Tyre S.P.A.                                                         | 14/11/2022 | 4433537 | 22802733.0 |        |
| 4433544 | CLARIANT INTERNATIONAL LTD                                                  | 11/11/2022 | 4433544 | 22817605.3 | German |
| 4433632 | Autoliv Development AB                                                      | 13/10/2022 | 4433632 | 22801153.2 |        |
| 4433712 | Grundfos Holding A/S                                                        | 16/11/2022 | 4433712 | 22818009.7 |        |
| 4433735 | SAIPEM S.A.                                                                 | 16/11/2022 | 4433735 | 22834685.4 | French |
| 4433738 | A. RAYMOND ET CIE                                                           | 19/11/2021 | 4433738 | 21816165.1 |        |
| 4434079 | Siemens Aktiengesellschaft                                                  | 02/11/2022 | 4434079 | 22809170.8 | German |
| 4434100 | Mercedes-Benz Group AG                                                      | 07/11/2023 | 4434100 | 23804635.3 | German |
| 4434105 | Hycco                                                                       | 10/11/2022 | 4434105 | 22817563.4 | French |
| 4434268 | InterDigital Patent Holdings, Inc.                                          | 18/11/2022 | 4434268 | 22839553.9 |        |
| 4434705 | Betonwerken Vets en Zonen nv                                                | 14/10/2022 | 4434705 | 24194669.8 |        |
| 4434734 | Spirit AeroSystems Global Holdings Limited                                  | 20/03/2024 | 4434734 | 24164967.2 |        |
|         | SHORT BROTHERS PLC                                                          |            |         |            |        |
| 4434761 | Seiko Instruments Inc.                                                      | 20/03/2024 | 4434761 | 24164955.7 |        |
| 4434804 | MAHLE International GmbH                                                    | 23/03/2023 | 4434804 | 23163700.0 | German |
| 4434809 | FERRARI S.p.A.                                                              | 29/02/2024 | 4434809 | 24160471.9 |        |
| 4434879 | HYUNDAI MOTOR COMPANY                                                       | 10/11/2023 | 4434879 | 23209029.0 |        |
|         | Kia Corporation                                                             |            |         |            |        |
| 4434906 | Oberland M & V GmbH                                                         | 22/03/2024 | 4434906 | 24165420.1 | German |
| 4435171 | LG Electronics Inc.                                                         | 22/11/2022 | 4435171 | 22898988.5 |        |
| 4435292 | Goodrich Actuation Systems Limited                                          | 23/03/2023 | 4435292 | 23275045.5 |        |
| 4435564 | CELLICO Inc.                                                                | 24/11/2023 | 4435564 | 23211905.7 |        |
| 4435708 | Angel Playing Cards Co., Ltd.                                               | 02/08/2016 | 4435708 | 24192634.4 |        |



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| 4435940 | LG Energy Solution, Ltd.                             | 18/10/2023 | 4435940 | 23880202.9 |        |
| 4435981 | Rosenberger Hochfrequenztechnik GmbH & Co. KG        | 24/03/2023 | 4435981 | 23164088.9 | German |
| 4436496 | Eventum Orthopaedics Limited                         | 16/11/2022 | 4436496 | 22812726.2 |        |
| 4436640 | Alchemy Pharmatech Limited                           | 25/11/2022 | 4436640 | 22826820.7 |        |
| 4436731 | Vesuvius Group, S.A.                                 | 24/11/2022 | 4436731 | 22822069.5 |        |
| 4436750 | Illinois Tool Works, Inc.                            | 17/11/2022 | 4436750 | 22823284.9 |        |
| 4436751 | Illinois Tool Works, Inc.                            | 17/11/2022 | 4436751 | 22839083.7 |        |
| 4436825 | Epiroc Rock Drills Aktiebolag                        | 22/09/2022 | 4436825 | 22783070.0 |        |
| 4436834 | MCi (Mirror Controls International) Netherlands B.V. | 22/11/2022 | 4436834 | 22809922.2 |        |
| 4436864 | Decathlon                                            | 22/11/2022 | 4436864 | 22821489.6 | French |
| 4436900 | Swisslog Logistics, Inc.                             | 17/11/2022 | 4436900 | 22835948.5 |        |
| 4436911 | PLANCKIAN S.R.L.                                     | 23/11/2022 | 4436911 | 22823164.3 |        |
| 4437037 | Pirelli Tyre S.p.A.                                  | 24/11/2022 | 4437037 | 22822657.7 |        |
| 4437196 | ROCKWOOL A/S                                         | 22/11/2022 | 4437196 | 22821899.6 |        |
| 4437300 | Rheinmetall Waffe Munition GmbH                      | 21/11/2022 | 4437300 | 22821418.5 | German |
| 4437304 | Physik Instrumente (PI) SE & Co. KG                  | 22/11/2022 | 4437304 | 22821909.3 | German |
| 4437435 | Okeanos Group, LLC                                   | 23/11/2022 | 4437435 | 22899398.6 |        |
| 4437582 | Nelumbo Digital                                      | 16/11/2022 | 4437582 | 22817756.4 | French |
|         | European Synchrotron Radiation Facility              |            |         |            |        |
| 4437797 | Telefonaktiebolaget LM Ericsson (publ)               | 15/11/2022 | 4437797 | 22817731.7 |        |
| 4437976 | Edwards Lifesciences Corporation                     | 29/04/2019 | 4437976 | 24175576.8 |        |
| 4438004 | Huvitz Co., Ltd.                                     | 21/03/2024 | 4438004 | 24165224.7 |        |
| 4438056 | F. Hoffmann-La Roche AG                              | 10/09/2020 | 4438056 | 24155884.0 |        |
| 4438143 | Sony Interactive Entertainment Europe                | 15/03/2024 | 4438143 | 24163994.7 |        |
| 4438332 | BRIDGESTONE CORPORATION                              | 12/10/2022 | 4438332 | 22898255.9 |        |
| 4438410 | KOITO MANUFACTURING CO., LTD.                        | 22/11/2022 | 4438410 | 22898550.3 |        |
| 4438491 | Rolls-Royce plc                                      | 13/03/2024 | 4438491 | 24163128.2 |        |
| 4438506 | MULTIVAC Sepp Haggenmüller SE & Co. KG               | 25/03/2024 | 4438506 | 24165965.5 | German |
| 4438865 | Deere & Company                                      | 29/01/2024 | 4438865 | 24154374.3 | German |
| 4438878 | Hamilton Sundstrand Corporation                      | 21/03/2024 | 4438878 | 24165337.7 |        |
| 4438992 | Armaments Research Company Inc.                      | 05/07/2023 | 4438992 | 23183687.5 |        |
| 4439253 | EyeGuide, Inc.                                       | 18/08/2016 | 4439253 | 24186507.0 |        |
| 4439609 | Vimar S.p.A.                                         | 26/03/2024 | 4439609 | 24166364.0 |        |
| 4440096 | Zhuhai Pantum Electronics Co., Ltd.                  | 26/03/2024 | 4440096 | 24166096.8 |        |
| 4440132 | Honor Device Co., Ltd.                               | 21/08/2023 | 4440132 | 23867196.0 |        |
| 4440154 | GN Hearing A/S                                       | 31/03/2023 | 4440154 | 23165778.4 |        |
| 4440160 | Beijing Xiaomi Mobile Software Co., Ltd.             | 22/11/2021 | 4440160 | 21964478.8 |        |
| 4440304 | EcoRobotix SA                                        | 30/11/2022 | 4440304 | 22821635.4 |        |
| 4440381 | JULIUS BLUM GMBH                                     | 22/11/2022 | 4440381 | 22813400.3 | German |
| 4440559 | Fresenius Kabi Austria GmbH                          | 22/11/2022 | 4440559 | 22817377.9 |        |
| 4440628 | Curasight A/S                                        | 29/11/2022 | 4440628 | 22823030.6 |        |
| 4440822 | ConvaTec Limited                                     | 29/11/2022 | 4440822 | 22818879.3 |        |
| 4440853 | Pirelli Tyre S.P.A.                                  | 09/11/2022 | 4440853 | 22818113.7 |        |
| 4441103 | Borealis GmbH                                        | 29/11/2022 | 4441103 | 22823364.9 |        |
| 4441149 | Nitrochemie Aschau GmbH                              | 24/11/2022 | 4441149 | 22822353.3 | German |
| 4441247 | Technische Universiteit Eindhoven                    | 28/11/2022 | 4441247 | 22814539.7 |        |
| 4441255 | HYBRIT Development AB                                | 26/10/2022 | 4441255 | 22800860.3 |        |
| 4441280 | MARZOLI MACHINES TEXTILE S.r.l.                      | 25/11/2022 | 4441280 | 22826416.4 |        |
| 4441377 | AGCO International GmbH                              | 15/11/2022 | 4441377 | 22829579.6 |        |
| 4441396 | BRP-Rotax GmbH & Co. KG                              | 29/11/2022 | 4441396 | 22823056.1 |        |
| 4441784 | Rogers Germany GmbH                                  | 11/11/2022 | 4441784 | 22817236.7 | German |
| 4441864 | Tesla, Inc.                                          | 29/11/2022 | 4441864 | 22847293.2 |        |
| 4442180 | Samsung Electronics Co., Ltd.                        | 20/03/2023 | 4442180 | 23799565.9 |        |
| 4442304 | Traverse Vascular, Inc.                              | 02/04/2020 | 4442304 | 24195367.8 |        |
| 4442438 | Salvaro, Marziano                                    | 28/03/2024 | 4442438 | 24167334.2 |        |
| 4442532 | Hierzer, Lukas                                       | 22/11/2023 | 4442532 | 23211396.9 | German |
|         | Jussel, Wolf Dieter                                  |            |         |            |        |
|         | Pieringer, Peter Jonathan                            |            |         |            |        |
|         | Scala, Christoph                                     |            |         |            |        |

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| 4442601 | InnoDo AG                                                                                                                                                                           | 05/04/2023 | 4442601 | 23166873.2 | German |
| 4442614 | Shenzhen Kubo Software Co., Ltd                                                                                                                                                     | 18/04/2023 | 4442614 | 23802595.1 |        |
|         | Hai Robotics Co., Ltd.                                                                                                                                                              |            |         |            |        |
| 4442883 | Tonello S.r.l.                                                                                                                                                                      | 28/03/2024 | 4442883 | 24167756.6 |        |
| 4442979 | PRATT & WHITNEY CANADA CORP.                                                                                                                                                        | 26/03/2024 | 4442979 | 24166491.1 |        |
| 4443019 | Norrhydro Oy                                                                                                                                                                        | 05/03/2024 | 4443019 | 24161433.8 |        |
| 4443039 | Guangdong Sirui Optical Co., Ltd                                                                                                                                                    | 28/11/2023 | 4443039 | 23212747.2 |        |
| 4443062 | GD Midea Air-Conditioning Equipment Co., Ltd.                                                                                                                                       | 26/04/2022 | 4443062 | 22909110.3 |        |
| 4443147 | Samsung Electronics Co., Ltd                                                                                                                                                        | 10/11/2014 | 4443147 | 24195524.4 |        |
| 4443328 | Angel Playing Cards Co., Ltd.                                                                                                                                                       | 18/06/2019 | 4443328 | 24195452.8 |        |
| 4443375 | Angel Playing Cards Co., Ltd.                                                                                                                                                       | 02/08/2016 | 4443375 | 24195289.4 |        |
| 4443462 | Eaton Intelligent Power Limited                                                                                                                                                     | 14/03/2024 | 4443462 | 24163577.0 |        |
| 4444054 | Hyundai Mobis Co., Ltd.                                                                                                                                                             | 08/11/2023 | 4444054 | 23208601.7 |        |
| 4444190 | Universität Zürich                                                                                                                                                                  | 21/11/2022 | 4444190 | 22818791.0 |        |
| 4445073 | Truma Gerätetechnik GmbH & Co. KG                                                                                                                                                   | 18/11/2022 | 4445073 | 22835567.3 | German |
| 4445203 | Dispelix Oy                                                                                                                                                                         | 21/11/2022 | 4445203 | 22812694.2 |        |
| 4445390 | X-Energy, LLC                                                                                                                                                                       | 20/06/2023 | 4445390 | 23913870.4 |        |
| 4445403 | Excillum AB                                                                                                                                                                         | 06/12/2022 | 4445403 | 22830742.7 |        |
| 4445555 | Akidaia                                                                                                                                                                             | 30/11/2022 | 4445555 | 22822555.3 | French |
| 4445720 | Deere & Company                                                                                                                                                                     | 11/03/2024 | 4445720 | 24162533.4 |        |
| 4445858 | Auris Health, Inc.                                                                                                                                                                  | 15/08/2020 | 4445858 | 24197521.8 |        |
| 4446029 | Lillbacka Powerco OY                                                                                                                                                                | 11/04/2024 | 4446029 | 24169654.1 |        |
| 4446072 | J. Schmalz GmbH                                                                                                                                                                     | 27/02/2024 | 4446072 | 24159908.3 | German |
| 4446095 | LG Energy Solution, Ltd.                                                                                                                                                            | 30/08/2023 | 4446095 | 23868424.5 |        |
| 4446128 | BRIDGESTONE CORPORATION                                                                                                                                                             | 16/05/2022 | 4446128 | 22903754.4 |        |
| 4446181 | Goodrich Corporation                                                                                                                                                                | 10/04/2024 | 4446181 | 24169516.2 |        |
| 4446197 | HONDA MOTOR CO., LTD.                                                                                                                                                               | 19/03/2024 | 4446197 | 24164363.4 |        |
| 4446398 | Afton Chemical Corporation                                                                                                                                                          | 02/04/2024 | 4446398 | 24168086.7 |        |
| 4446589 | mitsubishi electric corporation                                                                                                                                                     | 06/12/2021 | 4446589 | 21967069.2 |        |
| 4446776 | NXP B.V.                                                                                                                                                                            | 13/04/2023 | 4446776 | 23167730.3 |        |
| 4447661 | Precision Planting LLC                                                                                                                                                              | 12/08/2022 | 4447661 | 22761631.5 |        |
| 4448260 | COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN                                                                                                                                      | 02/11/2022 | 4448260 | 22801899.0 |        |
| 4448902 | DOGAMA S.r.l.                                                                                                                                                                       | 17/11/2022 | 4448902 | 22813346.8 |        |
| 4449175 | Telefonaktiebolaget LM Ericsson (publ)                                                                                                                                              | 09/11/2022 | 4449175 | 22814375.6 |        |
| 4449462 | ABB SCHWEIZ AG                                                                                                                                                                      | 15/11/2022 | 4449462 | 22817273.0 |        |
| 4449477 | SOITEC                                                                                                                                                                              | 13/12/2022 | 4449477 | 22840798.7 | French |
| 4449939 | Amer Sports Canada Inc.                                                                                                                                                             | 09/04/2024 | 4449939 | 24169334.0 |        |
| 4450019 | Bernhard Förster GmbH                                                                                                                                                               | 16/04/2024 | 4450019 | 24170626.6 | German |
| 4450454 | Murata Manufacturing Co., Ltd.                                                                                                                                                      | 17/04/2023 | 4450454 | 23168256.8 |        |
| 4450470 | Qingdao Zhongteng Zhiyuan Vacuum Glass Technology Development Co., Ltd.                                                                                                             | 28/03/2023 | 4450470 | 23848890.2 |        |
| 4450742 | KFV Karl Fliether GmbH & Co. KG                                                                                                                                                     | 09/04/2024 | 4450742 | 24169219.3 | German |
| 4450843 | Hyundai Mobis Co., Ltd.                                                                                                                                                             | 05/07/2023 | 4450843 | 23183660.2 |        |
| 4450882 | DAIKIN INDUSTRIES, LTD.                                                                                                                                                             | 19/10/2022 | 4450882 | 22907005.7 |        |
| 4451070 | Siemens Aktiengesellschaft                                                                                                                                                          | 20/04/2023 | 4451070 | 23169001.7 | German |
| 4451362 | AESC Dynamics Technology (Jiangsu) Ltd. AESC Intelligent Innovation Dynamics Technology (Shanghai) Ltd. AESC Dynamics Technology (Hubei) Ltd. AESC Dynamics Technology (Ordos) Ltd. | 24/11/2023 | 4451362 | 23211893.5 |        |
| 4451629 | Mavenir Systems, Inc.                                                                                                                                                               | 10/04/2024 | 4451629 | 24169401.7 |        |
| 4451802 | BSH Hausgeräte GmbH                                                                                                                                                                 | 22/03/2024 | 4451802 | 24165590.1 | German |
| 4452034 | Alfred Kärcher SE & Co. KG                                                                                                                                                          | 30/11/2022 | 4452034 | 22823492.8 | German |
| 4452908 | POLITECHNIKA WARSZAWSKA                                                                                                                                                             | 13/07/2023 | 4452908 | 23773348.0 |        |
| 4453052 | ARKEMA FRANCE                                                                                                                                                                       | 21/12/2022 | 4453052 | 22843309.0 |        |
| 4453283 | Siemens Energy Global GmbH & Co. KG                                                                                                                                                 | 05/01/2023 | 4453283 | 23700431.2 | German |
| 4453297 | Starlinger & Co Gesellschaft m.b.H.                                                                                                                                                 | 22/12/2022 | 4453297 | 22835559.0 | German |
| 4454083 | Air Liquide Electronics Systems                                                                                                                                                     | 02/11/2022 | 4454083 | 22809475.1 | French |
| 4454350 | Telefonaktiebolaget LM Ericsson (publ)                                                                                                                                              | 22/11/2022 | 4454350 | 22836033.5 |        |

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| 4454611 | Boston Scientific Scimed, Inc.                                                                                                                | 02/07/2020 | 4454611 | 24192571.8 |        |
| 4454840 | Comercial Industrial Maquinaria Carton Ondulado, S. L.                                                                                        | 20/12/2022 | 4454840 | 22847138.9 |        |
| 4455002 | Airbus Helicopters                                                                                                                            | 29/01/2024 | 4455002 | 24154547.4 | French |
| 4455413 | Wirtgen GmbH                                                                                                                                  | 16/08/2023 | 4455413 | 24200411.7 |        |
| 4455438 | Zurflüh-Feller                                                                                                                                | 12/04/2024 | 4455438 | 24169863.8 | French |
| 4456215 | TOYOTA JIDOSHA KABUSHIKI KAISHA                                                                                                               | 08/03/2024 | 4456215 | 24162398.2 |        |
| 4456606 | Nokia Technologies Oy                                                                                                                         | 14/08/2019 | 4456606 | 24192604.7 |        |
| 4456757 | Burgers Beheer B.V.                                                                                                                           | 29/11/2022 | 4456757 | 22814541.3 |        |
| 4456823 | Ahlstrom Oyj                                                                                                                                  | 28/12/2021 | 4456823 | 21847543.2 |        |
| 4458307 | RIVERFIELD Inc.                                                                                                                               | 17/01/2022 | 4458307 | 22920317.9 |        |
| 4459157 | PRATT & WHITNEY CANADA CORP.                                                                                                                  | 02/05/2024 | 4459157 | 24173887.1 |        |
| 4460264 | medmix Switzerland AG                                                                                                                         | 16/09/2022 | 4460264 | 22789535.6 |        |
| 4460433 | Mercedes-Benz Group AG                                                                                                                        | 19/04/2023 | 4460433 | 23720295.7 | German |
| 4461615 | HYUNDAI MOTOR COMPANY<br>Kia Corporation                                                                                                      | 06/05/2024 | 4461615 | 24174280.8 |        |
| 4461718 | UOP LLC                                                                                                                                       | 20/11/2023 | 4461718 | 23210889.4 |        |
| 4461991 | Xu, Zongyou                                                                                                                                   | 07/06/2023 | 4461991 | 23177851.5 |        |
| 4462722 | Paris Sciences et Lettres<br>Centre National de la Recherche Scientifique<br>Institut National de Recherche en Informatique et en Automatique | 28/07/2023 | 4462722 | 23315299.0 |        |
| 4463023 | Philip Morris Products S.A.                                                                                                                   | 12/01/2023 | 4463023 | 23700775.2 |        |
| 4463113 | Akrivision Technologies                                                                                                                       | 12/01/2023 | 4463113 | 23702641.4 | French |
| 4463928 | The Alfred E. Mann Foundation for Scientific Research                                                                                         | 12/01/2023 | 4463928 | 23704670.1 |        |
| 4465508 | MAZDA MOTOR CORPORATION                                                                                                                       | 08/05/2024 | 4465508 | 24174716.1 |        |
| 4465604 | LG Electronics Inc.                                                                                                                           | 02/11/2020 | 4465604 | 24205385.8 |        |
| 4465670 | Huawei Technologies Co., Ltd.                                                                                                                 | 14/02/2023 | 4465670 | 23752473.1 |        |
| 4465906 | Julier Medical AG                                                                                                                             | 19/01/2023 | 4465906 | 23702205.8 |        |
| 4466137 | Safran Ceramics                                                                                                                               | 12/01/2023 | 4466137 | 23703089.5 | French |
| 4466437 | Brose Fahrzeugteile SE & Co. Kommanditgesellschaft, Bamberg                                                                                   | 16/01/2023 | 4466437 | 23700994.9 | German |
| 4466516 | Q-TECH S.r.l.                                                                                                                                 | 16/01/2023 | 4466516 | 23703645.4 |        |
| 4466784 | Primetals Technologies Germany GmbH                                                                                                           | 13/12/2022 | 4466784 | 22834641.7 | German |
| 4466846 | Telefonaktiebolaget LM Ericsson (publ)                                                                                                        | 17/01/2022 | 4466846 | 22703550.8 |        |
| 4467798 | Hamilton Sundstrand Corporation                                                                                                               | 23/05/2024 | 4467798 | 24177624.4 |        |
| 4467937 | Discovery Purchaser Corporation                                                                                                               | 25/05/2020 | 4467937 | 24198238.8 | German |
| 4468321 | Samsung Electronics Co., Ltd.                                                                                                                 | 17/05/2024 | 4468321 | 24176514.8 |        |
| 4468371 | JINKO SOLAR CO., LTD.<br>ZHEJIANG JINKO SOLAR CO., LTD.                                                                                       | 18/07/2023 | 4468371 | 23186040.4 |        |
| 4468747 | Harman International Industries, Inc.                                                                                                         | 06/05/2024 | 4468747 | 24174283.2 |        |
| 4468922 | Rebecchi, Samuele                                                                                                                             | 25/01/2023 | 4468922 | 23706878.8 |        |
| 4469008 | Razian, Hassan                                                                                                                                | 13/01/2023 | 4469008 | 23703511.8 | French |
| 4469220 | SMS Group GmbH                                                                                                                                | 12/01/2023 | 4469220 | 23700781.0 | German |
| 4469248 | Camozzi Automation S.p.A.                                                                                                                     | 02/12/2022 | 4469248 | 22834723.3 |        |
| 4469278 | Dow Global Technologies LLC                                                                                                                   | 25/01/2023 | 4469278 | 23706513.1 |        |
| 4469333 | Wonderland Switzerland AG                                                                                                                     | 19/01/2023 | 4469333 | 23701414.7 |        |
| 4469679 | Siemens Gamesa Renewable Energy Innovation & Technology S.L.                                                                                  | 03/04/2023 | 4469679 | 23716528.7 |        |
| 4469822 | Brose Fahrzeugteile SE & Co. Kommanditgesellschaft, Coburg                                                                                    | 18/01/2023 | 4469822 | 23701299.2 | German |
| 4470004 | Yangtze Memory Technologies Co., Ltd.                                                                                                         | 29/04/2023 | 4470004 | 23727204.2 |        |
| 4470479 | Applied Medical Resources Corporation                                                                                                         | 22/10/2015 | 4470479 | 24206756.9 |        |
| 4470737 | MAX CO., LTD.                                                                                                                                 | 31/05/2024 | 4470737 | 24179412.2 |        |
| 4470883 | Weber-Hydraulik GmbH                                                                                                                          | 09/04/2024 | 4470883 | 24169112.0 | German |
| 4471000 | UOP LLC                                                                                                                                       | 23/11/2023 | 4471000 | 23211836.4 |        |
| 4471215 | Oliver's Hire Solutions Ltd                                                                                                                   | 22/05/2024 | 4471215 | 24177309.2 |        |
| 4471846 | Semiconductor Components Industries, LLC                                                                                                      | 13/03/2023 | 4471846 | 24207811.1 |        |

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|---------|--------------------------------------------------------------|------------|---------|------------|--------|
| 4472456 | RE-ZRO LIMITED                                               | 16/11/2022 | 4472456 | 22812727.0 | French |
| 4472623 | PRONUTRI                                                     | 27/01/2023 | 4472623 | 23701973.2 |        |
|         | UNIVERSITE COTE D'AZUR                                       |            |         |            |        |
|         | CENTRE NATIONAL DE LA                                        |            |         |            |        |
|         | RECHERCHE SCIENTIFIQUE                                       |            |         |            |        |
| 4473083 | Biogasclean A/S                                              | 07/11/2022 | 4473083 | 22814011.7 | German |
| 4473145 | Siemens Energy Global GmbH & Co. KG                          | 22/11/2022 | 4473145 | 22821890.5 |        |
| 4473172 | VKR Holding A/S                                              | 31/03/2023 | 4473172 | 23718715.8 | German |
| 4473417 | Vito NV                                                      | 31/01/2023 | 4473417 | 23702157.1 |        |
| 4474042 | Heraeus Medical GmbH                                         | 06/06/2023 | 4474042 | 23177510.7 | German |
| 4474317 | Kyowa Manufacturing Co., Ltd.                                | 21/04/2023 | 4474317 | 23847856.4 |        |
| 4474626 | GE Vernova Technology GmbH                                   | 09/05/2024 | 4474626 | 24175084.3 | German |
| 4474955 | eBay Inc.                                                    | 23/01/2020 | 4474955 | 24207685.9 |        |
| 4475076 | Axis AB                                                      | 05/06/2023 | 4475076 | 23177277.3 | German |
| 4476020 | JENOPTIK Automatisierungstechnik GmbH                        | 07/02/2023 | 4476020 | 23704108.2 |        |
| 4476097 | AUDI AG                                                      | 12/01/2023 | 4476097 | 23700939.4 | German |
| 4476117 | Siemens Mobility GmbH                                        | 15/03/2023 | 4476117 | 23713582.7 | German |
| 4476536 | EJOT SE & Co. KG                                             | 07/02/2023 | 4476536 | 23705963.9 | German |
| 4476540 | Waters Technologies Corporation                              | 08/02/2023 | 4476540 | 23707170.9 | German |
| 4476611 | CARIAD SE                                                    | 12/06/2023 | 4476611 | 23733652.4 |        |
| 4476718 | GOOGLE LLC                                                   | 25/04/2022 | 4476718 | 22722960.6 | French |
| 4477049 | N.V. Depoortere                                              | 13/06/2024 | 4477049 | 24181864.0 |        |
| 4477479 | Hyundai Mobis Co., Ltd.                                      | 17/11/2023 | 4477479 | 23210496.8 | German |
| 4477609 | Otis Elevator Company                                        | 10/06/2024 | 4477609 | 24181244.5 |        |
| 4477630 | Südbayerisches Portland-Zementwerk Gebr. Wiesböck & Co. GmbH | 16/06/2023 | 4477630 | 23179793.7 | German |
| 4477945 | RIDI Leuchten GmbH                                           | 03/06/2024 | 4477945 | 24179651.5 |        |
| 4478534 | Pegatron Corporation                                         | 22/05/2024 | 4478534 | 24177401.7 | German |
| 4478679 | GOOGLE LLC                                                   | 02/11/2020 | 4478679 | 24209460.5 |        |
| 4479010 | CV Machining s.r.o.                                          | 07/02/2024 | 4479010 | 24714779.6 | German |
| 4479167 | GEA Mechanical Equipment Italia S.p.A.                       | 22/03/2023 | 4479167 | 23714348.2 |        |
| 4479168 | GEA Mechanical Equipment Italia S.p.A.                       | 26/10/2023 | 4479168 | 23799021.3 | German |
| 4479255 | Tente GmbH & Co. KG                                          | 15/02/2023 | 4479255 | 23705981.1 |        |
| 4479502 | Unilever Global IP Limited                                   | 31/01/2023 | 4479502 | 23702164.7 | French |
| 4479574 | Safran Landing Systems                                       | 16/02/2023 | 4479574 | 23708846.3 |        |
| 4479605 | Sika Technology AG                                           | 13/02/2023 | 4479605 | 23704985.3 | German |
| 4479703 | Rheinmetall Landsysteme GmbH                                 | 17/11/2022 | 4479703 | 22818373.7 |        |
| 4480322 | ICL Europe Cooperatief U.A.                                  | 05/05/2019 | 4480322 | 24204423.8 | German |
| 4480438 | Stryker European Operations Limited                          | 22/06/2023 | 4480438 | 23180991.4 |        |
| 4480653 | Ferdinand Köhler GmbH                                        | 23/04/2024 | 4480653 | 24171808.9 | German |
| 4481230 | Emitech Holding B.V.                                         | 26/04/2024 | 4481230 | 24172598.5 |        |
| 4481406 | Bender GmbH & Co. KG                                         | 19/06/2024 | 4481406 | 24183029.8 | German |
| 4481549 | Beijing Volcano Engine Technology Co., Ltd.                  | 18/06/2024 | 4481549 | 24182939.9 |        |
| 4481574 | INTEL Corporation                                            | 22/11/2023 | 4481574 | 23211357.1 |        |
| 4481696 | TOYOTA JIDOSHA KABUSHIKI KAISHA                              | 23/06/2023 | 4481696 | 23181135.7 |        |
|         | Rheinische Friedrich-Wilhelms-Universität Bonn               |            |         |            |        |
| 4481886 | LG Energy Solution, Ltd.                                     | 01/11/2023 | 4481886 | 23886253.6 |        |
| 4482618 | GST Gestioni Servizi Technologie S.r.l.                      | 21/02/2023 | 4482618 | 23712105.8 |        |
|         | IG Operation and Maintenance S.p.A.                          |            |         |            |        |
|         | Alma Mater Studiorum - Università di Bologna                 |            |         |            |        |
| 4482674 | Rodenstock GmbH                                              | 26/01/2023 | 4482674 | 23702325.4 | German |
| 4482771 | BEUMER Group GmbH & Co. KG                                   | 23/02/2023 | 4482771 | 23709100.4 | German |
| 4483138 | Imagine Optic                                                | 16/02/2023 | 4483138 | 23706709.5 | French |
| 4483169 | Akzo Nobel Coatings International B.V.                       | 21/02/2023 | 4483169 | 23706749.1 |        |
| 4483833 | MAKO Surgical Corp.                                          | 10/04/2020 | 4483833 | 24213589.5 |        |
| 4483956 | Biohaven Therapeutics Ltd.                                   | 11/11/2018 | 4483956 | 24199849.1 |        |
| 4484179 | Sumitomo Rubber Industries, Ltd.                             | 11/06/2024 | 4484179 | 24181437.5 |        |

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| 4484201 | VOLKSWAGEN AG                                                                                                            | 11/03/2024 | 4484201 | 24162539.1 | German |
| 4484681 | Manufacture d'Horlogerie Audemars Piguet SA                                                                              | 29/06/2023 | 4484681 | 23182467.3 | French |
| 4484979 | Contemporary Amperex Future Energy Research Institute (Shanghai) Limited<br>Contemporary Amperex Technology Co., Limited | 27/06/2024 | 4484979 | 24185024.7 |        |
| 4485010 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                                                                     | 29/04/2022 | 4485010 | 22939327.7 |        |
| 4485119 | Goodrich Corporation                                                                                                     | 28/06/2023 | 4485119 | 23461613.4 |        |
| 4485422 | NISSAN MOTOR CO., LTD.                                                                                                   | 21/02/2022 | 4485422 | 22927175.4 |        |
| 4486189 | BSH Hausgeräte GmbH                                                                                                      | 13/01/2023 | 4486189 | 23700970.9 | German |
| 4486276 | Thuasne Deutschland GmbH                                                                                                 | 31/01/2023 | 4486276 | 23705336.8 | German |
| 4486542 | Pierburg GmbH                                                                                                            | 01/03/2022 | 4486542 | 22709686.4 | German |
| 4486619 | ArcelorMittal                                                                                                            | 28/02/2022 | 4486619 | 22707895.3 |        |
| 4486620 | ArcelorMittal                                                                                                            | 28/02/2022 | 4486620 | 22707896.1 |        |
| 4486623 | ArcelorMittal                                                                                                            | 28/02/2022 | 4486623 | 22782957.9 |        |
| 4487007 | OET GmbH                                                                                                                 | 09/02/2023 | 4487007 | 23704765.9 | German |
| 4487299 | Google LLC                                                                                                               | 13/03/2024 | 4487299 | 24719711.4 |        |
| 4487804 | Stryker European Operations Limited                                                                                      | 04/07/2023 | 4487804 | 23183394.8 |        |
| 4488118 | Suzuki Motor Corporation                                                                                                 | 02/07/2024 | 4488118 | 24185901.6 |        |
| 4488156 | Maierhofer, Johannes                                                                                                     | 25/06/2024 | 4488156 | 24184375.4 | German |
| 4488514 | Siemens Gamesa Renewable Energy A/S                                                                                      | 05/07/2023 | 4488514 | 23183670.1 |        |
| 4489079 | Diodes Incorporated                                                                                                      | 21/06/2024 | 4489079 | 24183700.4 |        |
| 4489380 | Nokia Solutions and Networks Oy                                                                                          | 14/06/2024 | 4489380 | 24182229.5 |        |
| 4489920 | Professional Disposables International Inc.                                                                              | 02/03/2023 | 4489920 | 23713508.2 |        |
| 4490092 | INVENTIO AG                                                                                                              | 16/02/2023 | 4490092 | 23705274.1 | German |
| 4493391 | BAE SYSTEMS plc                                                                                                          | 09/03/2023 | 4493391 | 23712071.2 |        |
| 4493497 | Plockmatic International Aktiebolag                                                                                      | 23/01/2023 | 4493497 | 23701708.2 |        |
| 4493507 | MANITOU BF                                                                                                               | 15/03/2023 | 4493507 | 23714805.1 | French |
| 4493857 | Beilschmidt, Alfred                                                                                                      | 14/03/2023 | 4493857 | 23711940.9 | German |
| 4494317 | Smarter Technologies Group Limited                                                                                       | 13/03/2023 | 4494317 | 23715575.9 |        |
| 4494828 | SCHÖCK BAUTEILE GmbH                                                                                                     | 16/07/2024 | 4494828 | 24188750.4 | German |
| 4495019 | Alpla Werke Alwin Lehner GmbH & CO. KG                                                                                   | 21/01/2022 | 4495019 | 24216735.1 | German |
| 4495361 | Hydro Building Systems Lüdenscheid GmbH                                                                                  | 04/07/2024 | 4495361 | 24186686.2 | German |
| 4495449 | Ostfalia Hochschule Für Angewandte Wissenschaften Hochschule Braunschweig/Wolfenbüttel                                   | 20/07/2023 | 4495449 | 23186759.9 | German |
| 4495581 | IFP Energies nouvelles                                                                                                   | 03/07/2024 | 4495581 | 24186169.9 | French |
| 4496222 | STMicroelectronics International N.V.                                                                                    | 13/06/2024 | 4496222 | 24181906.9 |        |
| 4496429 | Foshan Shunde Midea Electrical Heating Appliances Manufacturing Co., Ltd.                                                | 27/03/2024 | 4496429 | 24166933.2 |        |
| 4497557 | Kao Germany GmbH                                                                                                         | 26/07/2023 | 4497557 | 23187755.6 |        |
| 4497729 | STEVANATO GROUP S.P.A.                                                                                                   | 17/07/2024 | 4497729 | 24189117.5 |        |
| 4498491 | AESC Japan Ltd.                                                                                                          | 15/12/2023 | 4498491 | 23217162.9 |        |
| 4498668 | FUJIFILM Business Innovation Corp.                                                                                       | 07/02/2024 | 4498668 | 24156337.8 |        |
| 4498891 | Crea IP B.V.                                                                                                             | 29/03/2023 | 4498891 | 23714860.6 |        |
| 4499442 | Les Comptoirs d'Eole                                                                                                     | 21/03/2023 | 4499442 | 23716646.7 | French |
| 4499551 | Wittur Holding GmbH                                                                                                      | 19/04/2023 | 4499551 | 23722706.1 |        |
| 4499553 | INVENTIO AG                                                                                                              | 27/02/2023 | 4499553 | 23708201.1 | German |
| 4499610 | Zoetis Services LLC                                                                                                      | 29/03/2023 | 4499610 | 23719161.4 |        |
| 4502646 | TMY Technology Inc.                                                                                                      | 22/11/2023 | 4502646 | 23211434.8 |        |
| 4504039 | STROKEDX, INC.                                                                                                           | 18/01/2024 | 4504039 | 24709213.3 |        |
| 4504439 | Vesuvius - Sert, SAS                                                                                                     | 07/04/2023 | 4504439 | 23714770.7 |        |
| 4504882 | TotalEnergies OneTech                                                                                                    | 04/04/2023 | 4504882 | 23717123.6 | French |
| 4505254 | Siemens AG Österreich                                                                                                    | 24/05/2022 | 4505254 | 22732895.2 | German |
| 4505852 | Thomas Hatzenbichler Agro-Technik GmbH                                                                                   | 11/08/2023 | 4505852 | 23191051.4 | German |
| 4505871 | Big Dutchman International GmbH                                                                                          | 19/07/2024 | 4505871 | 24189616.6 | German |
| 4505892 | Shenzhen Smoore Technology Limited                                                                                       | 30/07/2024 | 4505892 | 24191630.3 |        |

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| 4506237 | Suzuki Motor Corporation                                                        | 06/08/2024 | 4506237 | 24193008.0 |        |
| 4506467 | Immagina Biotechnology S.r.l.                                                   | 18/07/2024 | 4506467 | 24189485.6 |        |
| 4507527 | Philip Morris Products S.A.                                                     | 12/04/2023 | 4507527 | 23718274.6 |        |
| 4507776 | Medtronic, Inc.                                                                 | 31/03/2023 | 4507776 | 23719485.7 |        |
| 4507922 | Bentley Motors Limited                                                          | 05/04/2023 | 4507922 | 23717513.8 |        |
| 4507964 | Ascendance Flight Technologies                                                  | 13/04/2023 | 4507964 | 23722435.7 | French |
| 4508138 | SABIC Global Technologies B.V.                                                  | 30/11/2023 | 4508138 | 23814215.2 |        |
| 4508305 | Technip Energies France                                                         | 14/04/2023 | 4508305 | 23719034.3 | French |
| 4508349 | Valeo Powertrain GmbH                                                           | 06/04/2023 | 4508349 | 23717181.4 | French |
| 4508800 | Boost SubscriberCo L.L.C.                                                       | 11/04/2023 | 4508800 | 23721180.0 |        |
| 4509291 | Bigus, Kazimierz                                                                | 07/08/2024 | 4509291 | 24193302.7 |        |
| 4509579 | Changchun Hyperions Technology Co., Ltd.                                        | 18/04/2024 | 4509579 | 24170935.1 |        |
| 4509736 | Kabushiki Kaisha F.C.C.                                                         | 26/04/2023 | 4509736 | 23830818.3 |        |
| 4509737 | Kendrion INTORQ GmbH                                                            | 18/08/2023 | 4509737 | 23192093.5 | German |
| 4511557 | Siemens Gamesa Renewable Energy A/S<br>Sandvik Mining And Construction USA, LLC | 18/04/2023 | 4511557 | 23723011.5 |        |
| 4511713 | Crouzet                                                                         | 18/04/2023 | 4511713 | 23720094.4 | French |
| 4511896 | Rolls-Royce plc                                                                 | 21/03/2023 | 4511896 | 23714488.6 |        |
| 4511912 | AGC Glass Europe                                                                | 19/04/2023 | 4511912 | 23721323.6 |        |
| 4512748 | Ubbink B.V.                                                                     | 12/07/2024 | 4512748 | 24188357.8 |        |
| 4513200 | DEKRA SE                                                                        | 29/07/2024 | 4513200 | 24191559.4 | German |
| 4513756 | JAPAN AVIATION ELECTRONICS<br>INDUSTRY, LIMITED                                 | 18/07/2024 | 4513756 | 24189597.8 |        |
| 4514753 | Rohm and Haas Company                                                           | 15/05/2023 | 4514753 | 23729913.6 |        |
| 4515376 | Streamwide                                                                      | 05/04/2023 | 4515376 | 23716579.0 | French |
| 4515732 | Signify Holding B.V.                                                            | 18/04/2023 | 4515732 | 23719037.6 |        |
| 4516723 | KABUSHIKI KAISHA TOSHIBA                                                        | 27/05/2024 | 4516723 | 24178198.8 |        |
| 4517324 | Bioteke Corporation (Wuxi) Co., Ltd.                                            | 30/01/2024 | 4517324 | 24154659.7 |        |
| 4517473 | STMicroelectronics International N.V.                                           | 23/08/2024 | 4517473 | 24196301.6 | French |
| 4517629 | Giesecke+Devrient advance52 GmbH                                                | 29/08/2023 | 4517629 | 23020403.4 |        |
| 4518146 | A. Dohrn & A. Timm GmbH & Co. KG                                                | 29/08/2024 | 4518146 | 24197219.9 | German |
| 4518599 | OVH                                                                             | 30/08/2023 | 4518599 | 23306435.1 |        |
| 4519021 | Ziemann Holvrieka GmbH                                                          | 24/03/2023 | 4519021 | 23715465.3 | German |
| 4519036 | CIMC Liquid Process Technology Co., Ltd.<br>ASK Chemicals GmbH                  | 12/05/2023 | 4519036 | 23727225.7 | German |
| 4519072 | Institut de Recherche Technologique Jules Verne                                 | 01/05/2023 | 4519072 | 23723896.9 | French |
| 4519134 | Mercedes-Benz Group AG                                                          | 29/11/2023 | 4519134 | 23814443.0 | German |
| 4519244 | Symrise AG                                                                      | 03/05/2022 | 4519244 | 22727791.0 |        |
| 4519605 | SERMETA                                                                         | 02/05/2023 | 4519605 | 23723919.9 | French |
| 4519607 | SAFRAN                                                                          | 02/05/2023 | 4519607 | 23726147.4 | French |
| 4520869 | Marti AG Bern                                                                   | 06/09/2023 | 4520869 | 23195713.5 | German |
| 4520899 | Xuzhou Dragon Guard Industrial Co., Ltd                                         | 20/03/2024 | 4520899 | 24164909.4 |        |
| 4521299 | Tata Consultancy Services Limited                                               | 09/08/2024 | 4521299 | 24193792.9 |        |
| 4521910 | Signify Holding B.V.                                                            | 08/05/2023 | 4521910 | 23725966.8 |        |
| 4523189 | VMI Holland B.V.                                                                | 10/05/2023 | 4523189 | 23724842.2 |        |
| 4523894 | Mitsubishi Heavy Industries, Ltd.                                               | 14/08/2024 | 4523894 | 24194519.5 |        |
| 4523941 | Suzuki Motor Corporation                                                        | 22/08/2024 | 4523941 | 24195826.3 |        |
| 4524222 | Kyodo Yushi Co., Ltd.                                                           | 12/05/2023 | 4524222 | 23803635.4 |        |
| 4524310 | Corino Macchine S.p.A.                                                          | 03/09/2024 | 4524310 | 24198127.3 |        |
| 4524512 | Dr. Johannes Heidenhain GmbH                                                    | 12/06/2024 | 4524512 | 24181624.8 | German |
| 4524842 | Moretti Forni S.p.A.                                                            | 13/09/2024 | 4524842 | 24200216.0 |        |
| 4524960 | Dolby International AB                                                          | 12/03/2010 | 4524960 | 24218652.6 |        |
| 4525622 | Gea Imaformi S.p.A.                                                             | 01/03/2024 | 4525622 | 24709198.6 |        |
| 4526089 | ABB Schweiz AG                                                                  | 17/05/2022 | 4526089 | 22731490.3 |        |
| 4526642 | LUXEMBOURG INSTITUTE OF<br>SCIENCE AND TECHNOLOGY (LIST)                        | 17/05/2023 | 4526642 | 23726527.7 |        |
| 4527270 | Einhell Germany AG                                                              | 19/09/2023 | 4527270 | 23198302.4 |        |
| 4529174 | Telefonaktiebolaget LM Ericsson (publ)                                          | 16/01/2020 | 4529174 | 25156894.5 |        |
| 4530561 | LG Electronics Inc.                                                             | 18/03/2019 | 4530561 | 25157595.7 |        |
| 4530624 | Tata Consultancy Services Limited                                               | 27/08/2024 | 4530624 | 24196613.4 |        |

|         |                                                                                                                                                                                                                        |            |         |            |        |
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| 4531816 | Gilead Sciences, Inc.                                                                                                                                                                                                  | 14/08/2024 | 4531816 | 24755477.7 |        |
| 4532775 | Lamberti SPA                                                                                                                                                                                                           | 24/05/2023 | 4532775 | 23728738.8 |        |
| 4532798 | Universiteit Antwerpen                                                                                                                                                                                                 | 02/06/2023 | 4532798 | 23731976.9 |        |
| 4534062 | X-Med AB                                                                                                                                                                                                               | 03/10/2023 | 4534062 | 23201410.0 |        |
| 4534779 | Cavea Engineering S.r.l.                                                                                                                                                                                               | 29/07/2024 | 4534779 | 24191370.6 |        |
| 4534948 | Hexagon Innovation Hub GmbH                                                                                                                                                                                            | 05/10/2023 | 4534948 | 23201940.6 |        |
| 4536855 | NunaBio Limited                                                                                                                                                                                                        | 08/06/2023 | 4536855 | 23733040.2 |        |
| 4538672 | IAE Suzhou Technologies Co., Ltd.                                                                                                                                                                                      | 15/03/2023 | 4538672 | 23856033.8 |        |
| 4539746 | Koninklijke Philips N.V.                                                                                                                                                                                               | 08/06/2023 | 4539746 | 23732442.1 |        |
| 4540352 | ArcelorMittal                                                                                                                                                                                                          | 08/06/2023 | 4540352 | 23734061.7 |        |
| 4540804 | Koninklijke Philips N.V.                                                                                                                                                                                               | 05/06/2023 | 4540804 | 23732405.8 |        |
| 4542001 | FNF Innovation Sh.P.K.                                                                                                                                                                                                 | 18/10/2023 | 4542001 | 23204327.3 | German |
| 4542428 | Testo SE & Co. KGaA                                                                                                                                                                                                    | 20/10/2023 | 4542428 | 23205064.1 | German |
| 4545356 | Trigano Servizi S.r.l.                                                                                                                                                                                                 | 14/10/2024 | 4545356 | 24206358.4 |        |
| 4545443 | FUJIFILM Business Innovation Corp.                                                                                                                                                                                     | 11/04/2024 | 4545443 | 24169644.2 |        |
| 4545854 | Siemens Aktiengesellschaft                                                                                                                                                                                             | 25/10/2023 | 4545854 | 23205942.8 | German |
| 4547972 | FLETTNER VENTILATOR LIMITED                                                                                                                                                                                            | 29/06/2023 | 4547972 | 23744236.3 |        |
| 4548031 | Higher Dimension Materials, Inc.                                                                                                                                                                                       | 28/06/2022 | 4548031 | 22949619.5 |        |
| 4550021 | Valstybinis Moksliniu Tyrimu Institutas<br>Fiziniu Ir Technologijos Mokslu Centras                                                                                                                                     | 06/11/2023 | 4550021 | 23208082.0 |        |
| 4550881 | Nokia Technologies Oy                                                                                                                                                                                                  | 09/09/2024 | 4550881 | 24199138.9 |        |
| 4551412 | YOKOHAMA TWS SOCIETÀ PER<br>AZIONI                                                                                                                                                                                     | 27/06/2023 | 4551412 | 23739682.5 |        |
| 4551811 | Siemens Gamesa Renewable Energy A/S                                                                                                                                                                                    | 04/07/2023 | 4551811 | 23739196.6 |        |
| 4552704 | Dräger Safety AG & Co. KGaA                                                                                                                                                                                            | 09/11/2023 | 4552704 | 23208879.9 |        |
| 4552820 | ifw Manfred Otte GmbH                                                                                                                                                                                                  | 09/11/2023 | 4552820 | 23208895.5 | German |
| 4553852 | SECRETARY, DEPARTMENT OF<br>ATOMIC ENERGY                                                                                                                                                                              | 10/11/2023 | 4553852 | 23209048.0 |        |
| 4555135 | Trützschler Group SE                                                                                                                                                                                                   | 16/06/2023 | 4555135 | 23732957.8 | German |
| 4555481 | 3Shape A/S                                                                                                                                                                                                             | 13/07/2023 | 4555481 | 23739600.7 |        |
| 4555500 | Millican, Ruth Nicola<br>Pemberton, Brian                                                                                                                                                                              | 26/09/2024 | 4555500 | 24790829.6 |        |
| 4556435 | GasConTec GmbH                                                                                                                                                                                                         | 14/11/2023 | 4556435 | 23209755.0 | German |
| 4557176 | Tata Consultancy Services Limited                                                                                                                                                                                      | 13/11/2024 | 4557176 | 24212718.1 |        |
| 4558313 | Equanostic AS                                                                                                                                                                                                          | 07/09/2023 | 4558313 | 23772590.8 |        |
| 4558808 | Blanco Fernández, David                                                                                                                                                                                                | 17/08/2023 | 4558808 | 23758586.4 |        |
| 4558958 | Koninklijke Philips N.V.                                                                                                                                                                                               | 10/07/2023 | 4558958 | 23738790.7 |        |
| 4559618 | Schwäbische Werkzeugmaschinen GmbH                                                                                                                                                                                     | 27/11/2023 | 4559618 | 23212435.4 | German |
| 4560249 | RECKNAGEL GmbH & Co. KG                                                                                                                                                                                                | 11/09/2024 | 4560249 | 24000109.9 | German |
| 4560524 | Leuze electronic GmbH + Co KG                                                                                                                                                                                          | 23/11/2023 | 4560524 | 23211783.8 | German |
| 4560744 | VOLVO TRUCK CORPORATION                                                                                                                                                                                                | 23/11/2023 | 4560744 | 23211860.4 |        |
| 4560917 | GREENoneTEC Solarindustrie GmbH                                                                                                                                                                                        | 22/11/2023 | 4560917 | 23211544.4 | German |
| 4561880 | SAF-HOLLAND GmbH                                                                                                                                                                                                       | 14/07/2023 | 4561880 | 23744137.3 | German |
| 4562397 | CERAFILTEC Germany GmbH                                                                                                                                                                                                | 17/08/2023 | 4562397 | 23758592.2 | German |
| 4564329 | Tata Consultancy Services Limited                                                                                                                                                                                      | 27/09/2024 | 4564329 | 24203307.4 |        |
| 4564352 | goAVA GmbH                                                                                                                                                                                                             | 28/11/2023 | 4564352 | 23212620.1 | German |
| 4565454 | Magna Seating Inc.                                                                                                                                                                                                     | 29/09/2023 | 4565454 | 23798548.6 |        |
| 4566429 | ORCA CONNEX AS                                                                                                                                                                                                         | 15/08/2023 | 4566429 | 23772340.8 |        |
| 4566574 | Orthogem Développement                                                                                                                                                                                                 | 06/12/2024 | 4566574 | 24218210.3 | French |
| 4566591 | KRKA, d.d., Novo mesto                                                                                                                                                                                                 | 07/12/2023 | 4566591 | 23214816.3 |        |
| 4566735 | KAWASAKI JUKOGYO KABUSHIKI<br>KAISHA<br>LVD Company NV                                                                                                                                                                 | 26/06/2020 | 4566735 | 25171666.8 |        |
| 4568767 | Sanitärtechnik Eisenberg GmbH                                                                                                                                                                                          | 04/09/2023 | 4568767 | 23768482.4 | German |
| 4569237 | Häfele Berlin GmbH & Co KG                                                                                                                                                                                             | 03/08/2023 | 4569237 | 23751943.4 | German |
| 4570276 | Kwiecinski, Piotr<br>Siec Badawcza Lukasiewicz Lodzki Instytut<br>Technologiczny<br>Instytut Podstawowych Problemów<br>Techniki Polskiej Akademii Nauk<br>Meger, Katarzyna<br>Uniwersytet Mikolaja Kopernika w Toruniu | 29/11/2024 | 4570276 | 24216329.3 |        |

|         |                                                                |            |         |            |        |
|---------|----------------------------------------------------------------|------------|---------|------------|--------|
| 4571800 | Hangzhou Quadrant Technology Co., Ltd.                         | 26/01/2024 | 4571800 | 24154109.3 | French |
| 4573170 | Unilever Global IP Limited                                     | 07/08/2023 | 4573170 | 23753905.1 |        |
| 4573451 | Airbus Defence and Space SAS                                   | 16/01/2024 | 4573451 | 24700320.5 |        |
| 4574360 | Industrias Tecnológicas de Mecanización y Automatización, S.A. | 22/12/2023 | 4574360 | 23383358.1 |        |
| 4575712 | LG Electronics Inc.                                            | 06/11/2024 | 4575712 | 24211027.8 | German |
| 4575965 | Fujitsu Limited                                                | 20/08/2024 | 4575965 | 24195357.9 |        |
| 4576435 | Japan Aviation Electronics Industry, Ltd.                      | 18/11/2024 | 4576435 | 24213620.8 |        |
| 4579020 | L&P Property Management Company                                | 15/10/2019 | 4579020 | 25176698.6 |        |
| 4579577 | Tata Consultancy Services Limited                              | 18/12/2024 | 4579577 | 24220885.8 |        |
| 4581575 | Koninklijke Philips N.V.                                       | 22/08/2023 | 4581575 | 23755434.0 |        |
| 4582727 | Guangdong Shuowei Technology Co., Ltd.                         | 15/01/2024 | 4582727 | 24151932.1 |        |
| 4585788 | Voß, Jürgen                                                    | 09/01/2025 | 4585788 | 25150882.6 |        |
| 4587219 | Microqubic AG                                                  | 16/09/2022 | 4587219 | 22790276.4 |        |
| 4588779 | ZF Friedrichshafen AG                                          | 19/01/2024 | 4588779 | 24152884.3 |        |
|         | ZF PADOVA S.r.l                                                |            |         |            | German |
| 4592669 | Endress+Hauser SICK GmbH+Co. KG                                | 23/01/2024 | 4592669 | 24153448.6 |        |
| 4592915 | Tata Consultancy Services Limited                              | 20/01/2025 | 4592915 | 25152711.5 |        |
| 4595809 | Shya Hsin Packaging Industry (China) Co., Ltd.                 | 14/08/2024 | 4595809 | 24194681.3 |        |
| 4597041 | SICK AG                                                        | 30/01/2024 | 4597041 | 24154781.9 | German |
| 4597328 | SK hynix Inc.                                                  | 26/08/2024 | 4597328 | 24196377.6 |        |
| 4600443 | Morimatsu (Jiangsu) Heavy Industry Co., Ltd.                   | 27/03/2024 | 4600443 | 24798378.6 |        |
|         |                                                                |            |         |            |        |
| 4600669 | J. Schmitz GmbH                                                | 12/02/2024 | 4600669 | 24157203.1 | German |
| 4603801 | SICK AG                                                        | 14/02/2024 | 4603801 | 24157649.5 | German |
| 4604893 | ConvaTec Limited                                               | 21/06/2024 | 4604893 | 24738036.3 | German |
| 4607061 | Beutler, Jörg                                                  | 21/02/2024 | 4607061 | 24158881.3 |        |
| 4608349 | CV Machining s.r.o.                                            | 07/02/2024 | 4608349 | 24714778.8 |        |
| 4609108 | VTI Ventil Technik GmbH                                        | 02/11/2023 | 4609108 | 23804900.1 |        |
| 4611975 | Ingenia Polymers International S.A.                            | 02/08/2024 | 4611975 | 24754252.5 | German |
| 4614054 | Leuze electronic GmbH + Co KG                                  | 04/03/2024 | 4614054 | 24161096.3 |        |
| 4616482 | Motorola Solutions, Inc.                                       | 17/11/2023 | 4616482 | 23825573.1 |        |
| 4617971 | Tata Consultancy Services Limited                              | 11/03/2025 | 4617971 | 25162774.1 |        |
| 4621298 | MCZ Group S.p.A.                                               | 27/09/2024 | 4621298 | 24203124.3 | German |
| 4622175 | SCHNEIDER ELECTRIC INDUSTRIES SAS                              | 22/03/2024 | 4622175 | 24305427.7 |        |
|         |                                                                |            |         |            |        |
| 4622530 | Carl Zeiss Vision International GmbH                           | 04/12/2024 | 4622530 | 24820390.3 |        |
| 4627715 | Airbus Defence and Space SAS                                   | 18/02/2025 | 4627715 | 25705902.2 | French |
| 4636263 | Krausz Industries Ltd.                                         | 10/04/2025 | 4636263 | 25169731.4 |        |
| 4646519 | ASSA ABLOY (Schweiz) AG                                        | 08/11/2024 | 4646519 | 24801305.4 |        |
| 4652360 | Mercedes-Benz Group AG                                         | 24/11/2023 | 4652360 | 23813617.0 |        |

### Grants Published in EPO Bulletin No. 02/26, dated 2026-01-07

|         |                                         |            |         |            |        |
|---------|-----------------------------------------|------------|---------|------------|--------|
| 2395523 | Nichicon Corporation                    | 04/02/2010 | 2395523 | 10738576.7 | German |
| 2625250 | UOP LLC                                 | 04/10/2011 | 2625250 | 11831420.2 |        |
| 2626202 | Flexopack S.A.                          | 05/02/2013 | 2626202 | 13153953.8 |        |
| 2702818 | Xiaomi H.K. Limited                     | 29/04/2011 | 2702818 | 11864327.9 |        |
| 2744991 | Transocean Sedco Forex Ventures Limited | 10/08/2012 | 2744991 | 12824304.5 |        |
| 2788006 | Alnylam Pharmaceuticals, Inc.           | 07/12/2012 | 2788006 | 12809020.6 |        |
| 2877435 | Sika Technology AG                      | 11/07/2013 | 2877435 | 13735286.0 |        |
| 2976536 | Simpson Strong-Tie Company, Inc.        | 20/03/2014 | 2976536 | 14723214.4 |        |
| 2978981 | Simpson Strong-Tie Company, Inc.        | 20/03/2014 | 2978981 | 14716742.3 |        |
| 2986679 | Fantini, Stefania                       | 16/03/2014 | 2986679 | 14716913.0 |        |
| 2999597 | Leonhard Kurz GmbH & Co. KG             | 06/05/2014 | 2999597 | 14722193.1 |        |
|         | OVD Kinegram AG                         |            |         |            |        |
| 3003891 | Ameriglobe, LLC                         | 05/06/2014 | 3003891 | 14807604.5 |        |
|         | Dow Global Technologies LLC             |            |         |            |        |
| 3004995 | Weidmüller Interface GmbH & Co. KG      | 27/05/2014 | 3004995 | 14727191.0 | German |
| 3008254 | Metso Finland Oy                        | 26/05/2014 | 3008254 | 14733225.8 |        |
| 3040100 | JUVIC INC.                              | 17/06/2014 | 3040100 | 14814569.1 |        |



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|---------|--------------------------------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 3043828 | The Research Foundation for the State<br>University of New York<br>Health Research, Inc.                           | 12/09/2014 | 3043828 | 14843496.2 |        |
| 3046601 | Glytec, LLC                                                                                                        | 15/01/2015 | 3046601 | 15744080.1 |        |
| 3076946 | Alzet, LLC                                                                                                         | 08/12/2014 | 3076946 | 14828594.3 |        |
| 3087131 | LiquidPower Specialty Products Inc.                                                                                | 09/12/2014 | 3087131 | 14824629.1 |        |
| 3118440 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                                                                 | 30/06/2016 | 3118440 | 16177036.7 |        |
| 3164368 | Essilor International                                                                                              | 03/07/2015 | 3164368 | 15742364.1 | French |
| 3166179 | Samsung Electronics Co., Ltd.                                                                                      | 03/07/2015 | 3166179 | 15814686.0 |        |
| 3175109 | PIAGGIO & C. S.p.A.                                                                                                | 30/07/2015 | 3175109 | 15751084.3 |        |
| 3222074 | ORANGE                                                                                                             | 19/11/2015 | 3222074 | 15804905.6 | French |
| 3227345 | BASF SE                                                                                                            | 24/11/2015 | 3227345 | 15801738.4 | German |
| 3231292 | Suntory Holdings Limited                                                                                           | 13/10/2016 | 3231292 | 16880172.8 |        |
| 3231446 | Palomo Limited                                                                                                     | 19/04/2011 | 3231446 | 17172370.3 |        |
| 3238268 | Intel Corporation                                                                                                  | 24/12/2014 | 3238268 | 14909252.0 |        |
| 3247328 | GENEVANT SCIENCES GMBH                                                                                             | 21/01/2016 | 3247328 | 16703407.3 |        |
| 3247342 | Temple University - Of The<br>Commonwealth System of Higher<br>Education<br>Reis, Helena M.G.P.V.                  | 21/01/2016 | 3247342 | 16740745.1 |        |
| 3256094 | Zest IP Holdings, LLC                                                                                              | 05/02/2016 | 3256094 | 16749641.3 |        |
| 3261158 | Toda Kogyo Corp.                                                                                                   | 15/02/2016 | 3261158 | 16752428.9 |        |
| 3262317 | Air Diffusion Agencies Pty Ltd                                                                                     | 26/02/2016 | 3262317 | 16754663.9 |        |
| 3269034 | Ricoh Company, Ltd.                                                                                                | 03/02/2016 | 3269034 | 16761230.8 |        |
| 3270813 | Intuitive Surgical Operations, Inc.                                                                                | 16/03/2016 | 3270813 | 16765614.9 |        |
| 3274999 | P M B                                                                                                              | 24/03/2016 | 3274999 | 16718406.8 | French |
| 3276663 | BOE Technology Group Co., Ltd.                                                                                     | 18/09/2015 | 3276663 | 15832676.9 |        |
| 3277381 | OBI PHARMA, INC.                                                                                                   | 01/04/2016 | 3277381 | 16774352.5 |        |
| 3278405 | Hewlett Packard Enterprise Development<br>LP                                                                       | 25/04/2016 | 3278405 | 16895737.1 |        |
| 3283154 | Sanford Health                                                                                                     | 14/04/2016 | 3283154 | 16719999.1 |        |
| 3283936 | QUALCOMM INCORPORATED                                                                                              | 13/04/2016 | 3283936 | 16717804.5 |        |
| 3290627 | Athmer oHG                                                                                                         | 03/08/2017 | 3290627 | 17184657.9 | German |
| 3291773 | V-Wave Ltd.<br>The Medical Research, Infrastructure, And<br>Health Services Fund Of The Tel Aviv<br>Medical Center | 05/05/2016 | 3291773 | 16789391.6 |        |
| 3300475 | The North Face Apparel Corp.                                                                                       | 29/02/2016 | 3300475 | 16770670.4 |        |
| 3302540 | Cornell University                                                                                                 | 27/05/2016 | 3302540 | 16800841.5 |        |
| 3305217 | Teleflex Life Sciences LLC                                                                                         | 22/10/2012 | 3305217 | 17199790.1 |        |
| 3307172 | Sunnybrook Research Institute                                                                                      | 15/06/2016 | 3307172 | 16810674.8 |        |
| 3307931 | Stora Enso Oyj                                                                                                     | 09/06/2016 | 3307931 | 16806992.0 |        |
| 3307998 | BAE Systems Controls Inc.                                                                                          | 10/06/2016 | 3307998 | 16808471.3 |        |
| 3311378 | Board of Regents, The University of Texas<br>System                                                                | 17/06/2016 | 3311378 | 16812531.8 |        |
| 3323549 | Erlas Erlanger Lasertechnik GmbH                                                                                   | 07/09/2017 | 3323549 | 17189742.4 | German |
| 3323752 | Shanghai Hongyan Returnable Transit<br>Packagings Co., Ltd.                                                        | 11/07/2016 | 3323752 | 16823868.1 |        |
| 3324788 | Manta Hair Limited                                                                                                 | 20/07/2016 | 3324788 | 16744474.4 |        |
| 3328024 | SSH Communications Security Oyj                                                                                    | 24/11/2017 | 3328024 | 17203652.7 |        |
| 3328227 | Morgan, Donald, Edward                                                                                             | 29/07/2016 | 3328227 | 16829944.4 |        |
| 3331244 | Gensquare LLC                                                                                                      | 02/11/2012 | 3331244 | 18150700.5 |        |
| 3337402 | Glytec, LLC                                                                                                        | 19/08/2016 | 3337402 | 16837919.6 |        |
| 3342528 | KABUSHIKI KAISHA TOSHIBA                                                                                           | 11/11/2015 | 3342528 | 15898472.4 |        |
| 3346080 | Simonswerk GmbH                                                                                                    | 15/12/2017 | 3346080 | 17207824.8 | German |
| 3347043 | Fundação Butantan                                                                                                  | 06/09/2016 | 3347043 | 16782176.8 |        |
| 3348339 | Sumitomo Electric Hardmetal Corp.<br>Sumitomo Electric Industries, Ltd.<br>Sumitomo Electric Tool Net, Inc.        | 07/07/2016 | 3348339 | 16844036.0 |        |
| 3352590 | SWM Holdco Luxembourg                                                                                              | 26/09/2016 | 3352590 | 16770518.5 |        |
| 3353127 | Sika Technology AG                                                                                                 | 22/09/2016 | 3353127 | 16775579.2 | German |

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| 3353696 | The Regents of the University of California                           | 21/09/2016 | 3353696 | 16849519.0 |        |
| 3355944 | Firmenich SA                                                          | 30/09/2016 | 3355944 | 16778302.6 |        |
| 3361489 | Hamilton Sundstrand Corporation                                       | 12/02/2018 | 3361489 | 18156251.3 |        |
| 3362798 | Sensapex Oy                                                           | 13/10/2015 | 3362798 | 15906189.4 |        |
| 3365387 | PPG Industries Ohio, Inc.                                             | 18/10/2016 | 3365387 | 16787688.7 |        |
| 3369848 | Jworld Co., Ltd.                                                      | 07/11/2016 | 3369848 | 16862507.7 |        |
| 3370808 | Dali Medical Devices Ltd.                                             | 03/11/2016 | 3370808 | 16861728.0 |        |
| 3372467 | Novus Hi-Tech Robotic Systemz Private Ltd.                            | 10/05/2017 | 3372467 | 17170492.7 |        |
| 3375690 | Fondation de Coopération Scientifique<br>RAILENIUM<br>ALSTOM Holdings | 12/03/2018 | 3375690 | 18161317.5 | French |
| 3378154 | LINAK A/S                                                             | 15/11/2016 | 3378154 | 16815709.7 |        |
| 3383822 | Knauf Gips KG                                                         | 09/09/2016 | 3383822 | 16770680.3 |        |
| 3386023 | Zeon Corporation                                                      | 28/11/2016 | 3386023 | 16870193.6 |        |
| 3396772 | AESC Japan Ltd.                                                       | 03/08/2016 | 3396772 | 16870227.2 |        |
| 3398990 | Mitsubishi Chemical Corporation                                       | 28/12/2016 | 3398990 | 16881821.9 |        |
| 3399141 | Saudi Arabian Oil Company                                             | 17/05/2016 | 3399141 | 18178356.4 |        |
| 3400028 | Amir, Avraham                                                         | 02/01/2017 | 3400028 | 17735920.5 |        |
| 3401725 | Palo Alto Research Center, Incorporated                               | 11/04/2018 | 3401725 | 18166832.8 |        |
| 3411081 | MeiraGTx Gene Regulation Limited                                      | 02/02/2017 | 3411081 | 17748182.7 |        |
| 3416176 | Sanyo Chemical Industries, Ltd.                                       | 08/02/2017 | 3416176 | 17750299.4 |        |
| 3417256 | PPG Industries Ohio, Inc.                                             | 17/02/2017 | 3417256 | 17708931.5 |        |
| 3421221 | Mitsui Chemicals, Inc.<br>Hopnic Laboratory Co., Ltd.                 | 24/02/2017 | 3421221 | 17756635.3 |        |
| 3424135 | Vertiv S.r.l.                                                         | 28/02/2017 | 3424135 | 17707858.1 | German |
| 3434767 | Chugai Seiyaku Kabushiki Kaisha                                       | 30/11/2011 | 3434767 | 18192844.1 |        |
| 3436151 | The Coca-Cola Company                                                 | 28/03/2017 | 3436151 | 17776458.6 |        |
| 3438208 | Furukawa Electric Co., Ltd.                                           | 29/03/2017 | 3438208 | 17775281.3 |        |
| 3438279 | BioPhenoMA, Inc.                                                      | 07/03/2017 | 3438279 | 17774110.5 |        |
| 3440418 | Carrier Corporation                                                   | 04/04/2017 | 3440418 | 17718253.2 |        |
| 3445755 | Givaudan S.A.                                                         | 20/04/2017 | 3445755 | 17721968.0 |        |
| 3446505 | Giesecke+Devrient Mobile Security<br>Germany GmbH                     | 13/04/2017 | 3446505 | 17719999.9 | German |
| 3447783 | Mitsubishi Electric Corporation                                       | 03/03/2017 | 3447783 | 17785666.3 |        |
| 3453739 | Daikin Industries, Ltd.                                               | 11/04/2017 | 3453739 | 17792668.0 |        |
| 3454676 | Alfasigma S.p.A.                                                      | 15/05/2017 | 3454676 | 17730275.9 |        |
| 3454979 | Massachusetts Institute of Technology                                 | 11/05/2017 | 3454979 | 17796896.3 |        |
| 3455866 | Eaton Intelligent Power Limited                                       | 26/04/2017 | 3455866 | 17723195.8 |        |
| 3455876 | Texas Instruments Incorporated                                        | 10/05/2017 | 3455876 | 17796774.2 |        |
| 3456774 | LG Chem, Ltd.                                                         | 18/09/2017 | 3456774 | 17853368.3 |        |
| 3461860 | Borealis GmbH                                                         | 29/09/2017 | 3461860 | 17194166.9 |        |
| 3463484 | The Regents of the University of California                           | 26/05/2017 | 3463484 | 17803728.9 |        |
| 3463587 | FL Nova                                                               | 24/05/2017 | 3463587 | 17733491.9 | French |
| 3468637 | Hemovent GmbH                                                         | 12/06/2017 | 3468637 | 17735386.9 | German |
| 3471831 | Mycone Dental Supply Co., Inc.<br>Nail Alliance LLC                   | 15/06/2016 | 3471831 | 16905644.7 |        |
| 3477393 | EBARA CORPORATION                                                     | 24/10/2018 | 3477393 | 18202401.8 |        |
| 3479757 | UIM Pressure Implant Inc.                                             | 22/12/2017 | 3479757 | 17210340.0 |        |
| 3480144 | Krones AG                                                             | 10/10/2018 | 3480144 | 18199552.3 | German |
| 3480168 | Könemann, Norbert                                                     | 14/09/2018 | 3480168 | 18194433.1 | German |
| 3480779 | Volvo Car Corporation                                                 | 01/11/2017 | 3480779 | 17199505.3 |        |
| 3481205 | Puratos N.V.                                                          | 10/07/2017 | 3481205 | 17742962.8 |        |
| 3481351 | The Procter & Gamble Company                                          | 30/06/2017 | 3481351 | 17738024.3 |        |
| 3481488 | Primo Medical Group, Inc.                                             | 06/07/2017 | 3481488 | 17824871.2 |        |
| 3483799 | General Electric Company                                              | 08/11/2018 | 3483799 | 18205106.0 |        |
| 3483921 | AT & S Austria Technologie &<br>Systemtechnik<br>Aktiengesellschaft   | 11/11/2017 | 3483921 | 17201225.4 |        |
| 3485426 | Qualcomm Incorporated                                                 | 12/06/2017 | 3485426 | 17734189.8 |        |
| 3493862 | Sanofi-Aventis Deutschland GmbH                                       | 28/07/2017 | 3493862 | 17745333.9 |        |
| 3495082 | Lincoln Global, Inc.                                                  | 28/11/2018 | 3495082 | 18208918.5 |        |

|         |                                                                 |            |         |            |        |
|---------|-----------------------------------------------------------------|------------|---------|------------|--------|
| 3498261 | Infection Elimination Services LLC                              | 23/01/2018 | 3498261 | 18153032.0 |        |
| 3506768 | OligoScience Biotechnology GmbH                                 | 29/08/2017 | 3506768 | 17755546.3 |        |
| 3512139 | Telefonaktiebolaget LM Ericsson (publ)                          | 13/03/2008 | 3512139 | 19156060.6 |        |
| 3513111 | Carl Kurt Walther GmbH & Co. KG                                 | 15/09/2017 | 3513111 | 17768446.1 | German |
|         | AVL DiTest GmbH                                                 |            |         |            |        |
| 3515267 | Kenwood Limited                                                 | 19/09/2017 | 3515267 | 17771569.5 |        |
| 3515291 | IP2IPO Innovations Limited                                      | 20/09/2017 | 3515291 | 17791125.2 |        |
| 3515384 | Bell Sports, Inc.                                               | 15/11/2017 | 3515384 | 17872833.3 |        |
| 3515528 | Michigan Critical Care Consultants, Inc.                        | 22/09/2017 | 3515528 | 17781245.0 |        |
| 3515571 | Botanical Water Technologies IP Ltd                             | 15/09/2017 | 3515571 | 17851980.7 |        |
| 3517152 | Becton, Dickinson and Company                                   | 17/08/2011 | 3517152 | 19155576.2 |        |
| 3521012 | Holcim Technology Ltd                                           | 18/09/2014 | 3521012 | 19161891.7 |        |
| 3521700 | Public Joint Stock Company "Machine-Building Plant "Ziopodolsk" | 30/09/2016 | 3521700 | 16917840.7 |        |
| 3525616 | Colgate-Palmolive Company                                       | 13/11/2017 | 3525616 | 17804769.2 |        |
| 3526777 | DENSO CORPORATION                                               | 12/10/2017 | 3526777 | 17794461.8 |        |
| 3528787 | Amgen Inc.                                                      | 19/10/2017 | 3528787 | 17862991.1 |        |
| 3529039 | Reifenhäuser GmbH & Co. KG                                      | 18/10/2017 | 3529039 | 17829587.9 | German |
|         | Maschinenfabrik                                                 |            |         |            |        |
| 3531488 | LG Energy Solution, Ltd.                                        | 19/06/2018 | 3531488 | 18875790.0 |        |
| 3531500 | LG Energy Solution, Ltd.                                        | 03/04/2018 | 3531500 | 18787680.0 |        |
| 3531835 | Locus Agriculture IP Company, LLC                               | 16/11/2017 | 3531835 | 17870729.5 |        |
| 3535205 | Witron Logistik + Informatik GmbH                               | 03/11/2017 | 3535205 | 17808307.7 | German |
| 3536956 | Schwäbische Hüttenwerke Automotive GmbH                         | 06/03/2019 | 3536956 | 19161045.0 | German |
| 3537184 | FUJIFILM Corporation                                            | 28/02/2019 | 3537184 | 19159932.3 |        |
| 3541268 | Shannon, Samuel                                                 | 16/11/2017 | 3541268 | 17808610.4 |        |
|         | Fried, Elchanan                                                 |            |         |            |        |
| 3541614 | Euro-Composites S.A.                                            | 21/11/2017 | 3541614 | 17808834.0 | German |
| 3541675 | TVS Motor Company Limited                                       | 15/11/2017 | 3541675 | 17870862.4 |        |
| 3542183 | trinamiX GmbH                                                   | 17/11/2017 | 3542183 | 17797667.7 |        |
| 3542794 | W. L. Gore & Associates, Inc.                                   | 14/03/2014 | 3542794 | 19174191.7 |        |
| 3545448 | WATOO                                                           | 24/11/2017 | 3545448 | 17804182.8 | French |
| 3545687 | Samsung Electronics Co., Ltd.                                   | 28/02/2018 | 3545687 | 18780928.0 |        |
| 3546163 | Michael Weinig AG                                               | 26/03/2019 | 3546163 | 19000148.7 | German |
| 3548148 | Fire Eater A/S                                                  | 01/12/2017 | 3548148 | 17808883.7 |        |
| 3549339 | Roku, Inc.                                                      | 08/11/2017 | 3549339 | 17877178.8 |        |
| 3552915 | Hyundai Motor Company                                           | 04/04/2019 | 3552915 | 19167271.6 |        |
|         | Kia Corporation                                                 |            |         |            |        |
| 3553071 | Samyang Corporation                                             | 22/11/2017 | 3553071 | 17878321.3 |        |
| 3558742 | Scania CV AB                                                    | 24/11/2017 | 3558742 | 17882921.4 |        |
| 3566619 | Nilsson, Rickard                                                | 24/04/2019 | 3566619 | 19170860.1 | German |
| 3569118 | Kenwood Limited                                                 | 19/09/2017 | 3569118 | 19179822.2 |        |
| 3571295 | Yeda Research and Development Co. Ltd                           | 18/01/2018 | 3571295 | 18704624.8 |        |
| 3571420 | IKEA Supply AG                                                  | 19/01/2018 | 3571420 | 18741217.6 |        |
|         | Woodwelding SA                                                  |            |         |            |        |
| 3577466 | F. Hoffmann-La Roche AG                                         | 31/01/2018 | 3577466 | 18703293.3 |        |
| 3579826 | Ovid Therapeutics Inc.                                          | 08/02/2018 | 3579826 | 18752026.7 |        |
| 3579922 | OncoBeta International GmbH                                     | 09/02/2018 | 3579922 | 18709268.9 |        |
| 3580539 | Nextinput, Inc.                                                 | 09/02/2018 | 3580539 | 18751209.0 |        |
| 3581973 | Johnson & Johnson Vision Care, Inc.                             | 29/04/2012 | 3581973 | 19174679.1 |        |
| 3582482 | CANON KABUSHIKI KAISHA                                          | 28/05/2019 | 3582482 | 19177044.5 |        |
| 3583771 | Beijing Didi Infinity Technology And Development Co., Ltd.      | 28/09/2017 | 3583771 | 17897010.9 |        |
| 3585483 | The Regents of the University of California                     | 23/02/2018 | 3585483 | 18756705.2 |        |
| 3589733 | Exuma Biotech Corp.                                             | 03/03/2018 | 3589733 | 18711459.0 |        |
| 3591748 | SK On Co., Ltd.                                                 | 05/07/2019 | 3591748 | 19184658.3 |        |
| 3593885 | Ibiden Co., Ltd.                                                | 05/03/2018 | 3593885 | 18764791.2 |        |
| 3594859 | Tata Consultancy Services Limited                               | 12/03/2019 | 3594859 | 19162069.9 |        |
| 3594959 | DEKA Products Limited Partnership                               | 23/01/2009 | 3594959 | 19190218.8 |        |
| 3595526 | Henkel AG & Co. KGaA                                            | 05/03/2018 | 3595526 | 18709340.6 | German |
| 3595748 | Owen Mumford Limited                                            | 15/03/2018 | 3595748 | 18714035.5 |        |

|         |                                                                                |            |         |            |        |
|---------|--------------------------------------------------------------------------------|------------|---------|------------|--------|
| 3595749 | Owen Mumford Limited                                                           | 15/03/2018 | 3595749 | 18714036.3 |        |
| 3600067 | Koninklijke Philips N.V.                                                       | 29/03/2018 | 3600067 | 18716180.7 |        |
| 3602969 | InterDigital CE Patent Holdings                                                | 31/03/2017 | 3602969 | 17904062.1 |        |
| 3603569 | Kobayashi Pharmaceutical Co., Ltd.                                             | 14/02/2018 | 3603569 | 18772647.6 |        |
| 3604326 | FUJIFILM Corporation                                                           | 20/03/2018 | 3604326 | 18771827.5 |        |
| 3605660 | LG Energy Solution, Ltd.                                                       | 17/01/2019 | 3605660 | 19744531.5 |        |
| 3606615 | Smart Resilin Ltd.                                                             | 04/04/2018 | 3606615 | 18723987.6 |        |
|         | Yissum Research Development Company of the Hebrew University of Jerusalem Ltd. |            |         |            |        |
| 3610368 | nChain Licensing AG                                                            | 06/04/2018 | 3610368 | 18718227.4 |        |
| 3612610 | Avery Dennison Retail Information Services LLC                                 | 18/04/2018 | 3612610 | 18723131.1 |        |
| 3613543 | FEI Company                                                                    | 21/08/2018 | 3613543 | 18190045.7 |        |
| 3613825 | China University of Petroleum-Beijing                                          | 21/03/2019 | 3613825 | 19164396.4 |        |
| 3614278 | Fujitsu Limited                                                                | 20/04/2017 | 3614278 | 17906051.2 |        |
| 3614325 | CPlabs Inc.                                                                    | 18/04/2018 | 3614325 | 18787035.7 |        |
| 3614839 | LANXESS Corporation                                                            | 27/04/2017 | 3614839 | 17907600.5 |        |
| 3614917 | Whoop, Inc.                                                                    | 23/04/2018 | 3614917 | 18791263.9 |        |
| 3614955 | Medtronic Navigation, Inc.                                                     | 27/04/2018 | 3614955 | 18725369.5 |        |
| 3618846 | United States Government as Represented by the Department of Veterans Affairs  | 04/05/2018 | 3618846 | 18795253.6 |        |
| 3620797 | RTX Corporation                                                                | 03/09/2019 | 3620797 | 19195224.1 |        |
| 3620911 | Renesas Electronics Corporation                                                | 08/08/2019 | 3620911 | 19190658.5 |        |
| 3620986 | Sartorius Stedim Data Analytics AB                                             | 18/06/2019 | 3620986 | 19180972.2 |        |
| 3621039 | Tata Consultancy Services Limited                                              | 29/01/2019 | 3621039 | 19154180.4 |        |
| 3621404 | Huawei Technologies Co., Ltd.                                                  | 08/05/2018 | 3621404 | 18805163.5 |        |
| 3621448 | Société des Produits Nestlé S.A.                                               | 04/05/2018 | 3621448 | 18724184.9 |        |
| 3622105 | Carl Freudenberg KG                                                            | 06/04/2018 | 3622105 | 18716251.6 | German |
| 3624570 | Samsung Electronics Co., Ltd.                                                  | 11/09/2019 | 3624570 | 19196753.8 |        |
| 3627784 | Huawei Technologies Co., Ltd.                                                  | 11/06/2018 | 3627784 | 18818027.7 |        |
| 3628818 | RTX Corporation                                                                | 25/09/2019 | 3628818 | 19199546.3 |        |
| 3629492 | Ofinno, LLC                                                                    | 25/09/2019 | 3629492 | 19199658.6 |        |
| 3629531 | INTEL Corporation                                                              | 28/06/2019 | 3629531 | 19183485.2 |        |
| 3630286 | RefleXion Medical, Inc.                                                        | 30/05/2018 | 3630286 | 18810297.4 |        |
| 3630470 | AUDI AG                                                                        | 24/05/2018 | 3630470 | 18727271.1 | German |
| 3630929 | Cargill, Incorporated                                                          | 23/05/2018 | 3630929 | 18729007.7 |        |
| 3633014 | Mitsubishi Gas Chemical Company, Inc.                                          | 24/05/2018 | 3633014 | 18805143.7 |        |
| 3636449 | SRAM, LLC.                                                                     | 10/10/2019 | 3636449 | 19202346.3 |        |
| 3637407 | BOE Technology Group Co., Ltd.                                                 | 04/06/2018 | 3637407 | 18812852.4 |        |
|         | Beijing BOE Display Technology Co., Ltd.                                       |            |         |            |        |
| 3639854 | The Doshisha                                                                   | 15/06/2018 | 3639854 | 18817514.5 |        |
| 3639912 | Mitsubishi Chemical Cleansui Corporation                                       | 14/06/2018 | 3639912 | 18818944.3 |        |
| 3640343 | Adaptive Biotechnologies Corporation                                           | 01/10/2013 | 3640343 | 19199181.9 |        |
|         | Memorial Sloan Kettering Cancer Center                                         |            |         |            |        |
| 3643648 | Innovative Logistics, LLC                                                      | 31/10/2017 | 3643648 | 19214546.4 |        |
| 3643757 | Sumitomo Metal Mining Co., Ltd.                                                | 19/06/2018 | 3643757 | 18819660.4 |        |
| 3644302 | Samsung Display Co., Ltd                                                       | 25/10/2019 | 3644302 | 19205489.8 |        |
| 3644536 | Microsoft Technology Licensing, LLC                                            | 03/10/2017 | 3644536 | 19209026.4 |        |
| 3647885 | Tissot S.A.                                                                    | 02/11/2018 | 3647885 | 18204123.6 | French |
| 3648204 | Ningde Amperex Technology Limited                                              | 05/11/2019 | 3648204 | 19207088.6 |        |
| 3648461 | Canon Kabushiki Kaisha                                                         | 07/11/2012 | 3648461 | 19207314.6 |        |
| 3648888 | Eltek S.p.A.                                                                   | 02/07/2018 | 3648888 | 18739955.5 |        |
| 3649053 | KRONES AG                                                                      | 22/06/2018 | 3649053 | 18743687.8 | German |
| 3650055 | Smith & Nephew plc                                                             | 22/05/2013 | 3650055 | 19200079.2 |        |
| 3650584 | WALTER AG                                                                      | 08/11/2018 | 3650584 | 18205208.4 |        |
| 3650643 | RTX Corporation                                                                | 08/11/2019 | 3650643 | 19208065.3 |        |
| 3652536 | AxoSim, Inc.                                                                   | 13/07/2018 | 3652536 | 18753497.9 |        |
| 3655306 | Siemens Mobility GmbH                                                          | 20/08/2018 | 3655306 | 18759906.3 | German |
| 3656329 | Medtronic Ablation Frontiers LLC                                               | 13/07/2012 | 3656329 | 19218891.0 |        |
| 3657428 | Samsung Electronics Co., Ltd.                                                  | 02/10/2018 | 3657428 | 18868442.7 |        |
| 3657677 | Commissariat à l'Energie Atomique et aux Energies Alternatives                 | 18/11/2019 | 3657677 | 19209871.3 | French |

|         |                                                                      |            |         |            |        |
|---------|----------------------------------------------------------------------|------------|---------|------------|--------|
| 3658958 | RefleXion Medical, Inc.                                              | 26/07/2018 | 3658958 | 18837615.6 |        |
| 3659566 | Sleep Number Corporation                                             | 24/10/2017 | 3659566 | 20151892.5 |        |
| 3659638 | Smith & Nephew, Inc.                                                 | 19/11/2014 | 3659638 | 19209497.7 |        |
| 3660175 | Korea Institute of Geoscience and Mineral Resources (KIGAM)          | 27/07/2018 | 3660175 | 18839016.5 |        |
| 3661500 | Novartis AG                                                          | 30/07/2018 | 3661500 | 18759401.5 |        |
| 3661501 | Novartis AG                                                          | 30/07/2018 | 3661501 | 18759744.8 |        |
| 3661904 | Eastman Chemical Company                                             | 31/07/2018 | 3661904 | 18756063.6 |        |
| 3664641 | Philip Morris Products S.A.                                          | 09/08/2018 | 3664641 | 18755430.8 |        |
| 3664961 | Franz Haimer Maschinenbau KG                                         | 07/08/2018 | 3664961 | 18753136.3 | German |
| 3665592 | Microsoft Technology Licensing, LLC                                  | 09/08/2018 | 3665592 | 18845046.4 |        |
| 3665774 | Reid Acoustic Designs Ltd                                            | 07/08/2018 | 3665774 | 18769416.1 |        |
| 3667644 | Honeywell International Inc.                                         | 08/11/2019 | 3667644 | 19208204.8 |        |
| 3668420 | Boston Scientific Scimed, Inc.                                       | 15/01/2019 | 3668420 | 19703502.5 |        |
| 3668458 | Boston Scientific Scimed, Inc.                                       | 10/08/2018 | 3668458 | 18760165.3 |        |
| 3668556 | Brethe, Inc.                                                         | 15/08/2018 | 3668556 | 18845595.0 |        |
|         | University of Maryland, Baltimore                                    |            |         |            |        |
| 3668696 | Technische Universität Chemnitz                                      | 24/08/2018 | 3668696 | 18779554.7 | German |
| 3669209 | BAE Systems PLC                                                      | 31/07/2018 | 3669209 | 18749481.0 |        |
| 3671940 | Contemporary Ampere Technology (Hong Kong) Limited                   | 08/11/2019 | 3671940 | 19207860.8 |        |
| 3672561 | Colgate-Palmolive Company                                            | 18/07/2018 | 3672561 | 18750027.7 |        |
| 3673384 | Samsung Electronics Co., Ltd.                                        | 16/11/2018 | 3673384 | 18877587.8 |        |
| 3675050 | INTEL Corporation                                                    | 02/10/2019 | 3675050 | 19200961.1 |        |
| 3675747 | Revmedica, Inc.                                                      | 24/08/2018 | 3675747 | 18849700.2 |        |
| 3675956 | Mayo Foundation for Medical Education and Research                   | 31/08/2018 | 3675956 | 18851934.2 |        |
| 3677037 | Dolby Laboratories Licensing Corporation                             | 22/08/2018 | 3677037 | 18759012.0 |        |
| 3678219 | LG Energy Solution, Ltd.                                             | 08/10/2018 | 3678219 | 18870316.9 |        |
| 3680900 | Dolby Laboratories Licensing Corporation                             | 12/06/2014 | 3680900 | 20156303.8 |        |
| 3682371 | Robert Bosch GmbH                                                    | 21/08/2018 | 3682371 | 18769038.3 | German |
| 3683841 | Samsung Display Co., Ltd.                                            | 08/01/2020 | 3683841 | 20150647.4 |        |
| 3684188 | Unilever IP Holdings B.V.                                            | 16/08/2018 | 3684188 | 18752505.0 |        |
| 3684379 | The Hong Kong University Of Science And Technology                   | 18/09/2018 | 3684379 | 18858588.9 |        |
| 3685100 | National Institute for Aerospace Technology (INTA)                   | 14/09/2018 | 3685100 | 18772785.4 |        |
|         | Topsoe A/S                                                           |            |         |            |        |
| 3687210 | Huawei Technologies Co., Ltd.                                        | 09/11/2018 | 3687210 | 18886137.1 |        |
| 3687679 | INPIGEST SRL                                                         | 28/09/2018 | 3687679 | 18789223.7 |        |
|         | EARTH & SEA GROUP SRL                                                |            |         |            |        |
| 3687768 | Peridot Print LLC                                                    | 16/01/2018 | 3687768 | 18901414.5 |        |
| 3688015 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 28/09/2018 | 3688015 | 18773469.4 |        |
| 3688046 | Arkema Inc.                                                          | 25/09/2018 | 3688046 | 18861689.0 |        |
| 3689086 | Telefonaktiebolaget LM Ericsson (publ)                               | 28/09/2018 | 3689086 | 18788911.8 |        |
| 3689332 | Vectura Limited                                                      | 09/09/2015 | 3689332 | 20165232.8 |        |
| 3690860 | StradVision, Inc.                                                    | 22/01/2020 | 3690860 | 20153074.8 |        |
| 3692998 | Fukuoka, Hirotaro                                                    | 02/10/2017 | 3692998 | 17927917.9 |        |
| 3694276 | Huawei Technologies Co., Ltd.                                        | 14/11/2018 | 3694276 | 18878350.0 |        |
| 3694790 | Duracell U.S. Operations, Inc.                                       | 15/10/2018 | 3694790 | 18800366.9 |        |
| 3696418 | LG Electronics Inc.                                                  | 14/02/2020 | 3696418 | 20157345.8 |        |
| 3698355 | 3M Innovative Properties Company                                     | 19/10/2018 | 3698355 | 18799961.0 |        |
| 3700355 | Société des Produits Nestlé S.A.                                     | 22/10/2018 | 3700355 | 18789148.6 |        |
| 3700457 | Intuitive Surgical Operations, Inc.                                  | 18/10/2018 | 3700457 | 18871136.0 |        |
| 3701389 | Weka.IO Ltd.                                                         | 04/10/2018 | 3701389 | 18871443.0 |        |
| 3702044 | Suzhou BeiAng Smart Technology Co., Ltd.                             | 08/01/2018 | 3702044 | 18870459.7 |        |
| 3702134 | The Boeing Company                                                   | 16/08/2018 | 3702134 | 20165299.7 |        |
| 3702775 | Cytiva Sweden AB                                                     | 21/06/2010 | 3702775 | 20168846.2 |        |
| 3703163 | Samsung SDI Co., Ltd.                                                | 12/02/2020 | 3703163 | 20156838.3 |        |
| 3703262 | NXP USA, Inc.                                                        | 11/02/2020 | 3703262 | 20156750.0 |        |

|         |                                                       |            |         |            |        |
|---------|-------------------------------------------------------|------------|---------|------------|--------|
| 3703423 | Huawei Technologies Co., Ltd.                         | 14/11/2017 | 3703423 | 17931957.9 |        |
| 3704393 | Schaeffler Technologies AG & Co. KG                   | 29/10/2018 | 3704393 | 18803533.1 | German |
| 3706623 | Braincare Desenvolvimento E Inovação Tecnológica S.A. | 02/11/2018 | 3706623 | 18872565.9 |        |
| 3706925 | MEIKO Maschinenbau GmbH & Co. KG                      | 06/11/2018 | 3706925 | 18799726.7 | German |
| 3707346 | Weatherford Technology Holdings, LLC                  | 17/11/2017 | 3707346 | 17817385.2 |        |
| 3708285 | FANUC CORPORATION                                     | 10/03/2020 | 3708285 | 20162029.1 |        |
| 3709032 | Analog Devices International Unlimited Company        | 26/02/2020 | 3709032 | 20159499.1 |        |
| 3709094 | Ricoh Company, Ltd.                                   | 05/03/2020 | 3709094 | 20161266.0 |        |
| 3710077 | Immutrix Therapeutics, Inc.                           | 16/11/2018 | 3710077 | 18879765.8 |        |
| 3710343 | Siemens Mobility Austria GmbH                         | 21/02/2018 | 3710343 | 18710340.3 | German |
| 3710422 | Syngenta Crop Protection AG                           | 14/11/2018 | 3710422 | 18803664.4 |        |
| 3711142 | Safran Helicopter Engines                             | 14/11/2018 | 3711142 | 18816190.5 | French |
| 3712119 | LG CHEM, LTD.                                         | 20/05/2019 | 3712119 | 19807227.4 |        |
| 3712855 | Siemens Healthineers AG                               | 21/03/2019 | 3712855 | 19164362.6 | German |
| 3713274 | Deutsche Telekom AG                                   | 19/03/2019 | 3713274 | 19163728.9 |        |
|         | Giesecke+Devrient Mobile Security Germany GmbH        |            |         |            |        |
| 3716164 | Accenture Global Solutions Limited                    | 06/03/2020 | 3716164 | 20161573.9 |        |
| 3716765 | BASF SE                                               | 28/11/2018 | 3716765 | 18882615.0 |        |
| 3716933 | Colgate-Palmolive Company                             | 30/11/2017 | 3716933 | 17817566.7 |        |
| 3718123 | iie GmbH & Co. KG                                     | 26/11/2018 | 3718123 | 18810986.2 | German |
| 3718713 | Nitta Corporation                                     | 08/11/2018 | 3718713 | 18880934.7 |        |
| 3718794 | Bridgestone Corporation                               | 14/08/2018 | 3718794 | 18884518.4 |        |
| 3718976 | Furukawa Electric Co., Ltd.                           | 30/11/2018 | 3718976 | 18884628.1 |        |
| 3719278 | Safran Nacelles                                       | 25/03/2020 | 3719278 | 20165555.2 | French |
| 3719429 | Qualicaps Co., Ltd.                                   | 06/11/2018 | 3719429 | 18884860.0 |        |
| 3720563 | Kenvue Brands LLC                                     | 29/11/2018 | 3720563 | 18819495.5 |        |
| 3720663 | KUKA Deutschland GmbH                                 | 12/11/2018 | 3720663 | 18803612.3 | German |
| 3723621 | LSI Solutions, Inc.                                   | 05/02/2019 | 3723621 | 19747694.8 |        |
| 3724534 | Schaeffler Technologies AG & Co. KG                   | 13/11/2018 | 3724534 | 18807865.3 | German |
| 3726343 | Nokia Technologies Oy                                 | 15/04/2019 | 3726343 | 19169357.1 |        |
| 3726612 | Robert Bosch GmbH                                     | 08/04/2020 | 3726612 | 20168766.2 | German |
| 3731457 | Juniper Networks, Inc.                                | 14/10/2016 | 3731457 | 20178645.6 |        |
| 3731758 | THALES                                                | 28/12/2018 | 3731758 | 18833076.5 | French |
| 3734635 | LS Electric Co., Ltd.                                 | 22/11/2018 | 3734635 | 18897478.6 |        |
| 3735075 | Comcast Cable Communications, LLC                     | 01/05/2020 | 3735075 | 20172596.7 |        |
| 3735937 | Endospan Ltd.                                         | 30/11/2010 | 3735937 | 20181184.1 |        |
| 3736200 | Canyon Bicycles GmbH                                  | 30/04/2020 | 3736200 | 20172523.1 | German |
| 3736972 | Astemo, Ltd.                                          | 28/11/2018 | 3736972 | 18886511.7 |        |
| 3737104 | Samsung Electronics Co., Ltd.                         | 01/10/2015 | 3737104 | 20182969.4 |        |
| 3737665 | XWPharma Ltd.                                         | 08/01/2019 | 3737665 | 19738848.1 |        |
| 3737874 | ContiTech Luftfedersysteme GmbH                       | 18/10/2018 | 3737874 | 18795325.2 | German |
| 3740289 | Engineered Corrosion Solutions, LLC                   | 18/01/2019 | 3740289 | 19741526.8 |        |
| 3741002 | Oslo Universitetssykehus HF                           | 17/01/2019 | 3741002 | 19700934.3 |        |
| 3741806 | Hanwha TotalEnergies Petrochemical Co., Ltd.          | 08/11/2018 | 3741806 | 18901650.4 |        |
| 3742373 | Ingenico Belgium                                      | 23/05/2019 | 3742373 | 19176218.6 |        |
| 3742947 | Breville Pty Limited                                  | 21/12/2018 | 3742947 | 18902827.7 |        |
| 3744548 | MAZDA MOTOR CORPORATION                               | 20/05/2020 | 3744548 | 20175670.7 |        |
| 3745329 | Naver Corporation                                     | 29/05/2019 | 3745329 | 19305687.6 |        |
| 3746211 | Intabio, Inc.                                         | 29/01/2019 | 3746211 | 19743548.0 |        |
| 3746701 | Tridonic GmbH & Co. KG                                | 29/01/2018 | 3746701 | 18902948.1 |        |
| 3746763 | Illinois Tool Works, Inc.                             | 31/01/2018 | 3746763 | 18705282.4 |        |
| 3747311 | The Procter & Gamble Company                          | 20/04/2020 | 3747311 | 20170284.2 |        |
| 3747368 | FUJIFILM Corporation                                  | 25/01/2019 | 3747368 | 19748003.1 |        |
| 3748945 | Stereoyo BV                                           | 08/06/2020 | 3748945 | 20178832.0 |        |
| 3749066 | Toppan Printing Co., Ltd.                             | 21/01/2019 | 3749066 | 19747585.8 |        |
| 3749258 | KOC Universitesi                                      | 07/02/2018 | 3749258 | 18797200.5 |        |
| 3749268 | Solventum Intellectual Properties Company             | 29/01/2019 | 3749268 | 19706067.6 |        |
| 3749333 | European Molecular Biology Laboratory                 | 06/02/2019 | 3749333 | 19702294.0 |        |

|         |                                                                      |            |         |            |        |
|---------|----------------------------------------------------------------------|------------|---------|------------|--------|
| 3751789 | Samsung Electronics Co., Ltd.                                        | 11/06/2020 | 3751789 | 20179490.6 | German |
| 3752046 | ESSILOR INTERNATIONAL                                                | 13/02/2019 | 3752046 | 19703381.4 |        |
| 3754267 | Vaillant GmbH                                                        | 19/03/2020 | 3754267 | 20164121.4 |        |
| 3754291 | GFA Aviation Technology Beijing Co., Ltd.                            | 30/05/2019 | 3754291 | 19890323.9 |        |
| 3754360 | NXP USA, Inc.                                                        | 21/06/2019 | 3754360 | 19305808.8 |        |
| 3754614 | THE CALANY Holding S.à.r.l.                                          | 18/06/2020 | 3754614 | 20180723.7 |        |
| 3755046 | NTT DOCOMO, INC.                                                     | 13/02/2018 | 3755046 | 18906477.7 |        |
| 3758649 | Magenta Medical Ltd.                                                 | 25/03/2019 | 3758649 | 19716995.6 |        |
| 3760459 | Hyundai Motor Company                                                | 21/10/2019 | 3760459 | 19204263.8 |        |
|         | Kia Corporation                                                      |            |         |            |        |
| 3761240 | Palantir Technologies Inc.                                           | 20/11/2019 | 3761240 | 19210393.5 | German |
| 3761433 | LG Energy Solution, Ltd.                                             | 20/09/2019 | 3761433 | 19862682.2 |        |
| 3762016 | Amgen Inc.                                                           | 11/03/2019 | 3762016 | 19713304.4 |        |
| 3762608 | Pittendrigh, Cameron James                                           | 07/03/2019 | 3762608 | 19763521.2 |        |
| 3763522 | Flexopack S.A.                                                       | 09/07/2020 | 3763522 | 20185015.3 |        |
| 3764401 | United Microelectronics Corp.                                        | 14/04/2020 | 3764401 | 20169328.0 |        |
| 3765400 | Ebar Initiatives Ltd                                                 | 12/03/2019 | 3765400 | 19718909.5 |        |
| 3765961 | Microsoft Technology Licensing, LLC                                  | 05/04/2019 | 3765961 | 19718971.5 |        |
| 3766567 | Toray Industries, Inc.                                               | 24/05/2019 | 3766567 | 19806556.7 |        |
| 3767325 | Aptiv Technologies AG                                                | 19/07/2019 | 3767325 | 19187280.3 |        |
| 3770335 | Sumitomo Heavy Industries, Ltd.                                      | 20/03/2019 | 3770335 | 19771661.6 | German |
| 3770461 | The Boeing Company                                                   | 21/05/2020 | 3770461 | 20175893.5 |        |
| 3771383 | BSH Hausgeräte GmbH                                                  | 06/07/2020 | 3771383 | 20184115.2 |        |
| 3771914 | BSH Hausgeräte GmbH                                                  | 02/07/2020 | 3771914 | 20183665.7 |        |
| 3772336 | Karl Storz SE & Co. KG                                               | 04/08/2020 | 3772336 | 20189284.1 |        |
| 3773049 | NIKE Innovate C.V.                                                   | 10/04/2019 | 3773049 | 19719118.2 |        |
| 3773474 | Arecor Limited                                                       | 04/04/2019 | 3773474 | 19717578.9 |        |
| 3774305 | Coriolis Group                                                       | 25/03/2019 | 3774305 | 19720933.1 |        |
| 3775132 | Rohm and Haas Company                                                | 21/03/2019 | 3775132 | 19715664.9 |        |
|         | Union Carbide Corporation                                            |            |         |            |        |
| 3775917 | Koninklijke Philips N.V.                                             | 10/04/2019 | 3775917 | 19715503.9 | French |
| 3776532 | Telepathy Labs, Inc.                                                 | 27/03/2019 | 3776532 | 19775228.0 |        |
| 3776891 | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | 09/04/2019 | 3776891 | 19715124.4 |        |
| 3778019 | Mitsui Chemicals, Inc.                                               | 28/03/2019 | 3778019 | 19775589.5 |        |
| 3778604 | Dana-Farber Cancer Institute, Inc.                                   | 12/02/2016 | 3778604 | 20194144.0 |        |
| 3779543 | SUMITOMO ELECTRIC INDUSTRIES, LTD.                                   | 27/02/2019 | 3779543 | 19786054.7 |        |
| 3779649 | INTEL Corporation                                                    | 16/05/2016 | 3779649 | 20200720.9 |        |
| 3779899 | EUCHNER GmbH + Co. KG                                                | 16/08/2019 | 3779899 | 19192085.9 |        |
| 3780173 | GS Yuasa International Ltd.                                          | 01/04/2019 | 3780173 | 19806521.1 |        |
| 3780233 | LG Energy Solution, Ltd.                                             | 18/11/2019 | 3780233 | 19887204.6 | German |
| 3781037 | Theraclion SA                                                        | 15/03/2019 | 3781037 | 19709755.3 |        |
| 3781714 | Natera, Inc.                                                         | 12/04/2019 | 3781714 | 19721181.6 |        |
| 3782988 | Arizest (Shanghai) Pharmatech Co., Ltd.                              | 08/04/2019 | 3782988 | 19785947.3 |        |
|         | Jiangsu Xidi Pharmaceuticals Co., Ltd.                               |            |         |            |        |
|         | Shanghai Acebright Pharmaceuticals Group Co., Ltd.                   |            |         |            |        |
| 3783274 | Kim, No Eul                                                          | 12/06/2018 | 3783274 | 18915624.3 |        |
| 3783461 | ameria AG                                                            | 22/08/2017 | 3783461 | 20202016.0 |        |
| 3783940 | Bundesdruckerei GmbH                                                 | 20/07/2018 | 3783940 | 20201697.8 |        |
| 3783942 | NTT DOCOMO, INC.                                                     | 16/04/2019 | 3783942 | 19789151.8 |        |
| 3784432 | DMG MORI Pfronten GmbH                                               | 24/04/2019 | 3784432 | 19722532.9 | German |
| 3785253 | M.T. Reklam Anonim Sirketi                                           | 25/04/2018 | 3785253 | 18721322.8 |        |
| 3785769 | Sungrow Power Supply Co., Ltd.                                       | 05/08/2020 | 3785769 | 20189657.8 |        |
| 3787162 | Kuroda Precision Industries Ltd.                                     | 12/03/2019 | 3787162 | 19871196.2 |        |
| 3788818 | Malikie Innovations Limited                                          | 25/04/2019 | 3788818 | 19796386.1 |        |
| 3789461 | Henkel AG & Co. KGaA                                                 | 06/09/2019 | 3789461 | 19195801.6 |        |
| 3789691 | Kyungdong Navien Co., Ltd.                                           | 03/05/2019 | 3789691 | 19796904.1 |        |
| 3789984 | Yellow Line Parking Ltd.                                             | 06/09/2019 | 3789984 | 19196067.3 |        |
| 3791089 | ArvinMeritor Technology, LLC                                         | 09/05/2019 | 3791089 | 19725823.9 |        |
| 3791388 | Speech Engineering Limited                                           | 13/05/2019 | 3791388 | 19724591.3 |        |

|         |                                                               |            |         |            |        |
|---------|---------------------------------------------------------------|------------|---------|------------|--------|
| 3793265 | Samsung Electronics Co., Ltd.                                 | 25/06/2019 | 3793265 | 19826505.0 |        |
| 3794781 | Telefonaktiebolaget LM Ericsson (publ)                        | 17/05/2018 | 3794781 | 18726766.1 |        |
| 3794963 | American Snuff Company, LLC                                   | 17/09/2020 | 3794963 | 20196597.7 |        |
| 3795631 | Tsinghua University                                           | 24/06/2019 | 3795631 | 19829743.4 |        |
|         | DAIKIN INDUSTRIES, LTD.                                       |            |         |            |        |
| 3797851 | Horkos Corp                                                   | 12/06/2019 | 3797851 | 19821659.0 |        |
|         | TEC Project Services Corporation                              |            |         |            |        |
| 3798345 | LG Electronics Inc.                                           | 28/07/2020 | 3798345 | 20188030.9 |        |
| 3799073 | University of Virginia Patent Foundation                      | 26/08/2012 | 3799073 | 20191889.3 |        |
| 3800446 | HERE Global B.V.                                              | 02/10/2020 | 3800446 | 20199807.7 |        |
| 3800680 | LG CHEM, LTD.                                                 | 05/06/2019 | 3800680 | 19815850.3 |        |
| 3801165 | Mahaan International Investments Trade Ltd                    | 01/06/2018 | 3801165 | 18731972.8 |        |
| 3802118 | Saint-Gobain Sekurit France                                   | 06/06/2019 | 3802118 | 19728697.4 | German |
| 3803284 | Sensus Spectrum LLC                                           | 13/03/2019 | 3803284 | 19713146.9 |        |
| 3803554 | The Research Foundation for The State University of New York  | 23/05/2019 | 3803554 | 19807144.1 |        |
| 3804608 | Optos plc                                                     | 07/10/2020 | 3804608 | 20200486.7 |        |
| 3805092 | The Boeing Company                                            | 18/09/2020 | 3805092 | 20196891.4 |        |
| 3805239 | Universidad de Granada                                        | 23/05/2019 | 3805239 | 19734126.6 |        |
|         | Universitat de València                                       |            |         |            |        |
| 3805422 | Attometal Tech Pte. Ltd.                                      | 14/08/2019 | 3805422 | 19849603.6 |        |
| 3805707 | Melexis Technologies SA                                       | 22/09/2020 | 3805707 | 20197607.3 |        |
| 3807108 | ClearMotion, Inc.                                             | 14/06/2019 | 3807108 | 19820165.9 |        |
| 3807121 | Top Ka-Projekt Gmbh                                           | 17/06/2019 | 3807121 | 19731720.9 | German |
| 3807389 | The Procter & Gamble Company                                  | 15/06/2018 | 3807389 | 18922409.0 |        |
| 3807787 | Oracle International Corporation                              | 12/06/2019 | 3807787 | 19737324.4 |        |
| 3808160 | Paul Höss KG                                                  | 03/06/2019 | 3808160 | 19728062.1 | German |
| 3809076 | Samsung Electronics Co., Ltd.                                 | 10/08/2020 | 3809076 | 20208115.4 |        |
| 3810900 | Siemens Energy Global GmbH & Co. KG                           | 23/07/2018 | 3810900 | 18752925.0 |        |
| 3811795 | KT&G Corporation                                              | 06/08/2020 | 3811795 | 20810852.2 |        |
| 3811847 | EndoChoice, Inc.                                              | 16/06/2010 | 3811847 | 20185557.4 |        |
| 3812343 | Dai Nippon Printing Co., Ltd.                                 | 21/06/2019 | 3812343 | 19822916.3 |        |
| 3812663 | Gree Electric Appliances (Wuhan) Co., Ltd.                    | 12/09/2018 | 3812663 | 18923072.5 |        |
|         | Gree Electric Appliances, Inc. of Zhuhai                      |            |         |            |        |
| 3813121 | BOE TECHNOLOGY GROUP CO., LTD.                                | 20/03/2019 | 3813121 | 19821969.3 |        |
| 3814109 | Solventum Intellectual Properties Company                     | 26/06/2019 | 3814109 | 19763103.9 |        |
| 3814530 | Illumina Cambridge Limited                                    | 07/06/2019 | 3814530 | 19812891.0 |        |
|         | Illumina, Inc.                                                |            |         |            |        |
| 3815985 | Aptiv Technologies AG                                         | 22/10/2020 | 3815985 | 20203201.7 |        |
| 3816138 | Tokuyama Corporation                                          | 24/06/2019 | 3816138 | 19827459.9 |        |
| 3816965 | NISSAN MOTOR CO., LTD.                                        | 29/06/2018 | 3816965 | 18924837.0 |        |
|         | Renault s.a.s                                                 |            |         |            |        |
| 3817590 | KT&G Corporation                                              | 05/03/2020 | 3817590 | 20746538.6 |        |
| 3817757 | The Regents of the University of California                   | 03/07/2019 | 3817757 | 19831548.3 |        |
| 3820461 | The Children's Medical Center Corporation                     | 12/07/2019 | 3820461 | 19833416.1 |        |
| 3821521 | Innomotics GmbH                                               | 17/09/2019 | 3821521 | 19778862.3 | German |
| 3821566 | Ribbon Communications Operating Company, Inc.                 | 12/07/2019 | 3821566 | 19833131.6 |        |
| 3821585 | Ribbon Communications Operating Company, Inc.                 | 12/07/2019 | 3821585 | 19834934.2 |        |
| 3821854 | Waldemar Link GmbH & Co. KG                                   | 13/11/2019 | 3821854 | 19208824.3 | German |
| 3822409 | Billerud Aktiebolag (publ)                                    | 12/11/2019 | 3822409 | 19208620.5 |        |
| 3822881 | Google LLC                                                    | 19/08/2020 | 3822881 | 20191680.6 |        |
| 3824330 | Optotune Switzerland AG                                       | 18/07/2019 | 3824330 | 19742721.4 |        |
| 3825024 | Duplo Corporation                                             | 24/11/2020 | 3825024 | 20209520.4 |        |
| 3825233 | Rosemount Aerospace Inc.                                      | 07/10/2020 | 3825233 | 20200598.9 |        |
| 3825797 | Kabushiki Kaisha Yaskawa Denki                                | 03/11/2020 | 3825797 | 20205482.1 |        |
| 3826439 | AT & S Austria Technologie & Systemtechnik Aktiengesellschaft | 19/11/2019 | 3826439 | 19209969.5 |        |
| 3826899 | Milwaukee Electric Tool Corporation                           | 01/08/2019 | 3826899 | 19847881.0 |        |



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| 3827858 | Becton, Dickinson and Company                                                                                                                                          | 03/03/2010 | 3827858 | 21152686.8 |
| 3828010 | Bridgestone Europe NV/SA                                                                                                                                               | 27/11/2020 | 3828010 | 20210436.0 |
| 3829042 | Rolls-Royce plc                                                                                                                                                        | 20/10/2016 | 3829042 | 21152701.5 |
| 3829240 | VIVO MOBILE COMMUNICATION CO., LTD.                                                                                                                                    | 25/07/2019 | 3829240 | 19843448.2 |
| 3829294 | Dairymaster                                                                                                                                                            | 29/07/2019 | 3829294 | 19752271.7 |
| 3829755 | HCE S.r.l.                                                                                                                                                             | 19/07/2019 | 3829755 | 19765801.6 |
| 3829795 | Atlas Copco IAS UK Limited                                                                                                                                             | 05/08/2019 | 3829795 | 19750168.7 |
| 3830229 | Arxada AG                                                                                                                                                              | 27/08/2019 | 3830229 | 19783628.1 |
| 3831326 | Biosense Webster (Israel) Ltd.                                                                                                                                         | 03/05/2013 | 3831326 | 20215409.2 |
| 3831768 | ZHENG, Yutong                                                                                                                                                          | 18/03/2020 | 3831768 | 20804422.2 |
| 3831889 | CANON KABUSHIKI KAISHA                                                                                                                                                 | 19/07/2019 | 3831889 | 19844360.8 |
| 3832007 | LG Electronics Inc.                                                                                                                                                    | 30/07/2019 | 3832007 | 19845476.1 |
| 3832935 | VIVO MOBILE COMMUNICATION CO., LTD.                                                                                                                                    | 25/07/2019 | 3832935 | 19843763.4 |
| 3833456 | Egan, Leslie                                                                                                                                                           | 24/05/2019 | 3833456 | 19730249.0 |
| 3833695 | Merz Pharma GmbH & Co. KGaA                                                                                                                                            | 06/08/2019 | 3833695 | 19746507.3 |
| 3833715 | Life Technologies Corporation                                                                                                                                          | 08/08/2019 | 3833715 | 19762506.4 |
| 3833777 | Tempus AI, Inc.                                                                                                                                                        | 06/08/2019 | 3833777 | 19847000.7 |
| 3834720 | Shenzhen Mindray Bio-Medical Electronics Co., Ltd.<br>Peking Union Medical College Hospital,<br>Chinese Academy of Medical Science and<br>Peking Union Medical College | 21/08/2018 | 3834720 | 18931256.4 |
| 3835042 | Lightweight Labs, LLC                                                                                                                                                  | 04/11/2011 | 3835042 | 21155247.6 |
| 3835375 | Kao Corporation                                                                                                                                                        | 26/07/2019 | 3835375 | 19848427.1 |
| 3835669 | LG Electronics Inc.                                                                                                                                                    | 22/10/2020 | 3835669 | 20203243.9 |
| 3836096 | Nuctech Company Limited<br>Tsinghua University                                                                                                                         | 10/09/2020 | 3836096 | 20195460.9 |
| 3836251 | GS Yuasa International Ltd.                                                                                                                                            | 24/09/2019 | 3836251 | 19865755.3 |
| 3836333 | Raytheon Company                                                                                                                                                       | 31/03/2017 | 3836333 | 21155136.1 |
| 3836574 | Beijing Xiaomi Mobile Software Co., Ltd.                                                                                                                               | 07/08/2018 | 3836574 | 18929376.4 |
| 3837612 | Texas Instruments Incorporated                                                                                                                                         | 14/08/2019 | 3837612 | 19849942.8 |
| 3838152 | Osstemimplant Co., Ltd.                                                                                                                                                | 17/07/2019 | 3838152 | 19867681.9 |
| 3838207 | Biosense Webster (Israel) Ltd.                                                                                                                                         | 18/12/2020 | 3838207 | 20215568.5 |
| 3838249 | Dow Toray Co., Ltd.                                                                                                                                                    | 31/07/2019 | 3838249 | 19849980.8 |
| 3838257 | Dow Toray Co., Ltd.                                                                                                                                                    | 31/07/2019 | 3838257 | 19850694.1 |
| 3839767 | Google LLC                                                                                                                                                             | 23/01/2015 | 3839767 | 21156918.1 |
| 3839796 | Dassault Systèmes                                                                                                                                                      | 16/12/2019 | 3839796 | 19306655.2 |
| 3840641 | University of Washington                                                                                                                                               | 22/08/2019 | 3840641 | 19852360.7 |
| 3841292 | VOLKSWAGEN AG                                                                                                                                                          | 10/08/2020 | 3841292 | 20754243.2 |
| 3841471 | Arrcus Inc.                                                                                                                                                            | 23/08/2019 | 3841471 | 19852313.6 |
| 3842104 | ASICS Corporation                                                                                                                                                      | 01/11/2019 | 3842104 | 19927568.6 |
| 3842494 | Kuraray Co., Ltd.                                                                                                                                                      | 21/08/2019 | 3842494 | 19851061.2 |
| 3843139 | Micron Technology, Inc.                                                                                                                                                | 08/05/2018 | 3843139 | 21156374.7 |
| 3843723 | HK inno.N Corporation                                                                                                                                                  | 28/08/2019 | 3843723 | 19855537.7 |
| 3844424 | Flexitallic Investments, Inc.                                                                                                                                          | 30/08/2019 | 3844424 | 19763067.6 |
| 3845237 | Kyungpook National University Industry-Academic Cooperation Foundation                                                                                                 | 02/07/2020 | 3845237 | 20834993.6 |
| 3845666 | Xenohelix Co., Ltd                                                                                                                                                     | 26/11/2020 | 3845666 | 20210024.4 |
| 3846759 | Concepts For Success (C4S)                                                                                                                                             | 05/09/2019 | 3846759 | 19769400.3 |
| 3847202 | PPG Industries Ohio Inc.                                                                                                                                               | 28/08/2019 | 3847202 | 19787065.2 |
| 3848636 | RTX Corporation                                                                                                                                                        | 08/01/2021 | 3848636 | 21150751.2 |
| 3849099 | Jiang, Feng<br>Li, Qinghua<br>Chen, Xiaogang<br>Huang, Po-kai<br>Doostnejad, Roya<br>Klein, Arik<br>Das, Dibakar<br>Cariou, Laurent                                    | 24/12/2020 | 3849099 | 20217200.3 |
| 3849154 | Cisco Technology, Inc.                                                                                                                                                 | 01/06/2016 | 3849154 | 21156151.9 |

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| 3849837 | VOLVO TRUCK CORPORATION                             | 13/09/2018 | 3849837 | 18769679.4 |        |
| 3850375 | Nalu Scientific, LLC                                | 11/09/2019 | 3850375 | 19860902.6 |        |
| 3851303 | Yanshan University                                  | 01/08/2019 | 3851303 | 19859726.2 |        |
| 3851514 | Shenzhen Institutes of Advanced Technology          | 26/07/2018 | 3851514 | 18928020.9 |        |
| 3851539 | Sequenom, Inc.                                      | 03/10/2014 | 3851539 | 20208803.5 |        |
| 3851958 | ALIBABA GROUP HOLDING LIMITED                       | 06/09/2019 | 3851958 | 19860411.8 |        |
| 3852147 | Samsung Display Co., Ltd.                           | 22/10/2020 | 3852147 | 20203368.4 |        |
| 3853380 | Cell Environment                                    | 17/09/2019 | 3853380 | 19766278.6 | French |
| 3853601 | Waters Technologies Corporation                     | 17/09/2019 | 3853601 | 19782820.5 |        |
| 3853686 | ZF CV Systems Europe BV                             | 15/08/2019 | 3853686 | 19758649.8 | German |
| 3853848 | Sonos, Inc.                                         | 20/09/2019 | 3853848 | 19780508.8 |        |
| 3854201 | Deere & Company                                     | 30/08/2018 | 3854201 | 21155030.6 | German |
| 3855417 | STMicroelectronics (Research & Development) Limited | 24/01/2020 | 3855417 | 20153603.4 |        |
| 3855929 | ROQUETTE FRERES                                     | 25/09/2019 | 3855929 | 19795259.1 | French |
| 3855991 | Giles Enterprises, Inc.                             | 20/09/2019 | 3855991 | 19867178.6 |        |
| 3857096 | Robert Bosch GmbH                                   | 22/08/2019 | 3857096 | 19758713.2 | German |
| 3857599 | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           | 24/09/2018 | 3857599 | 18934836.0 |        |
| 3857902 | NBA Properties, Inc.                                | 30/10/2019 | 3857902 | 19879658.3 |        |
| 3858496 | DAIKIN INDUSTRIES, LTD.                             | 05/09/2019 | 3858496 | 19865588.8 |        |
| 3858716 | Hangzhou Hikrobot Co., Ltd.                         | 17/09/2019 | 3858716 | 19867086.1 |        |
| 3860239 | Malikie Innovations Limited                         | 15/06/2017 | 3860239 | 21156453.9 |        |
| 3860252 | 1FINITY Inc.                                        | 25/09/2018 | 3860252 | 18935790.8 |        |
| 3860288 | Hitachi Energy Ltd                                  | 31/01/2020 | 3860288 | 20154825.2 |        |
| 3861041 | Sika Technology AG                                  | 02/10/2019 | 3861041 | 19779028.0 | German |
| 3861251 | Flowil International Lighting (Holding) B.V.        | 01/10/2018 | 3861251 | 18783408.0 |        |
| 3861509 | Capital One Services, LLC                           | 01/10/2019 | 3861509 | 19869202.2 |        |
| 3862669 | LG Electronics Inc.                                 | 01/10/2019 | 3862669 | 19869043.0 |        |
| 3863241 | Huawei Technologies Co., Ltd.                       | 14/10/2019 | 3863241 | 19876639.6 |        |
| 3863769 | Valmont Industries, Inc.                            | 04/10/2019 | 3863769 | 19870681.4 |        |
| 3863809 | Physik Instrumente (PI) SE & Co KG                  | 09/10/2019 | 3863809 | 19786550.4 | German |
| 3865286 | Hamilton Sundstrand Corporation                     | 05/02/2021 | 3865286 | 21155460.5 |        |
| 3865354 | LG Innotek Co., Ltd.                                | 01/04/2019 | 3865354 | 19870786.1 |        |
| 3866063 | Samsung Electronics Co., Ltd.                       | 10/02/2021 | 3866063 | 21156221.0 |        |
| 3866146 | Shenzhen Gloshine Technology Co., Ltd.              | 20/08/2019 | 3866146 | 19782463.4 |        |
| 3867535 | Aerojet Rocketdyne, Inc.                            | 19/10/2018 | 3867535 | 18903037.2 |        |
| 3867596 | Nordson Test and Inspection Americas, Inc.          | 18/10/2019 | 3867596 | 19872425.4 |        |
| 3868429 | Becton Dickinson France                             | 18/02/2020 | 3868429 | 20305153.7 |        |
| 3868793 | Borealis GmbH                                       | 24/02/2020 | 3868793 | 20159078.3 |        |
| 3869117 | Moretti, Massimo                                    | 17/02/2021 | 3869117 | 21157730.9 |        |
| 3869676 | Fronius International GmbH                          | 19/02/2020 | 3869676 | 20158327.5 |        |
| 3870263 | ABK Biomedical Incorporated                         | 18/10/2019 | 3870263 | 19876598.4 |        |
| 3870993 | Robert Bosch GmbH                                   | 10/08/2019 | 3870993 | 19753052.0 | German |
| 3871006 | Valeo Schalter und Sensoren GmbH                    | 16/10/2019 | 3871006 | 19790175.4 | German |
| 3871127 | Intuit Inc.                                         | 29/07/2019 | 3871127 | 19931221.6 |        |
| 3871326 | Siemens Aktiengesellschaft                          | 25/11/2019 | 3871326 | 19821006.4 | German |
| 3871909 | HORSCH LEEB Application Systems GmbH                | 29/01/2021 | 3871909 | 21154267.5 | German |
| 3873653 | Cytiva Sweden AB                                    | 29/10/2019 | 3873653 | 19797245.8 |        |
| 3874346 | Microsoft Technology Licensing, LLC                 | 17/10/2019 | 3874346 | 19798439.6 |        |
| 3874760 | Netflix, Inc.                                       | 01/11/2019 | 3874760 | 19835886.3 |        |
| 3874960 | Fuji Oil Co., Ltd.                                  | 22/08/2019 | 3874960 | 19878114.8 |        |
| 3875430 | Toray Industries, Inc.                              | 28/10/2019 | 3875430 | 19880785.1 |        |
| 3875554 | FUJIFILM Corporation                                | 16/10/2019 | 3875554 | 19878528.9 |        |
| 3876352 | Hubbell Incorporated                                | 21/03/2016 | 3876352 | 21171275.7 |        |
| 3876374 | Hitachi Energy Ltd                                  | 03/03/2020 | 3876374 | 20160556.5 |        |
| 3877346 | SCHOTT AG                                           | 07/11/2019 | 3877346 | 19797746.5 | German |
| 3877483 | SNF Group                                           | 04/11/2019 | 3877483 | 19820822.5 | French |
| 3877496 | For Spills Ltd                                      | 08/11/2019 | 3877496 | 19820844.9 |        |

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| 3878051 | Hughes Network Systems, LLC                                                                    | 05/11/2019 | 3878051 | 19883312.1 | German |
| 3878056 | Auto-Kabel Management GmbH                                                                     | 06/11/2019 | 3878056 | 19800980.5 |        |
| 3878217 | TELEFONAKTIEBOLAGET LM<br>ERICSSON (PUBL)                                                      | 29/10/2019 | 3878217 | 19797643.4 |        |
| 3878448 | Amézcuca Amézcuca, Federico<br>Amézcuca Amézcuca, Carlos                                       | 01/11/2019 | 3878448 | 19882109.2 | French |
| 3878892 | LG CHEM, LTD.                                                                                  | 16/01/2020 | 3878892 | 20741396.4 |        |
| 3879292 | Hamilton Sundstrand Corporation                                                                | 10/03/2020 | 3879292 | 20275055.0 |        |
| 3881677 | Corticalis AS                                                                                  | 18/03/2020 | 3881677 | 20164045.5 |        |
| 3882290 | ROXEL France                                                                                   | 15/03/2021 | 3882290 | 21162488.7 |        |
| 3882296 | National University Corporation Kobe<br>University<br>MITSUBISHI GAS CHEMICAL<br>COMPANY, INC. | 14/11/2019 | 3882296 | 19883406.1 |        |
| 3882603 | Sony Group Corporation                                                                         | 06/11/2019 | 3882603 | 19883640.5 | French |
| 3882718 | Patek Philippe SA Genève                                                                       | 18/03/2020 | 3882718 | 20163937.4 |        |
| 3882765 | Google LLC                                                                                     | 18/06/2020 | 3882765 | 20180828.4 |        |
| 3883829 | TVS Motor Company Limited                                                                      | 19/11/2019 | 3883829 | 19886209.6 |        |
| 3883845 | Candelo, Carolina<br>Candelo, Isabella                                                         | 18/11/2019 | 3883845 | 19820866.2 | German |
| 3884530 | Applied Materials, Inc.                                                                        | 11/10/2019 | 3884530 | 19888187.2 |        |
| 3884595 | Signify Holding B.V.                                                                           | 13/11/2019 | 3884595 | 19801350.0 |        |
| 3884835 | Beijing Roborock Technology Co., Ltd.                                                          | 18/11/2019 | 3884835 | 19886711.1 |        |
| 3885045 | FLUICELL AB                                                                                    | 07/05/2012 | 3885045 | 21150588.8 |        |
| 3885647 | ZG Lighting France S.A.S                                                                       | 25/03/2020 | 3885647 | 20290037.9 |        |
| 3885848 | Robert Bosch GmbH<br>Carnegie Mellon University                                                | 24/03/2020 | 3885848 | 20165352.4 |        |
| 3886032 | Toshiba Tec Kabushiki Kaisha                                                                   | 23/02/2021 | 3886032 | 21158840.5 |        |
| 3886097 | XTX Technology Inc.                                                                            | 11/11/2020 | 3886097 | 20897636.5 |        |
| 3887320 | Corning Incorporated                                                                           | 18/11/2019 | 3887320 | 19817534.1 |        |
| 3888036 | Google LLC                                                                                     | 20/08/2020 | 3888036 | 20764550.8 | German |
| 3888270 | Taara Connect, Inc.                                                                            | 13/01/2020 | 3888270 | 20707537.5 |        |
| 3888938 | Osaka Gas Co., Ltd.<br>Osaka Gas Chemicals Co., Ltd.                                           | 22/11/2019 | 3888938 | 19889478.4 |        |
| 3889194 | LG Chem, Ltd.                                                                                  | 02/09/2020 | 3889194 | 20880896.4 |        |
| 3889782 | Panasonic Intellectual Property Corporation<br>of America                                      | 09/09/2019 | 3889782 | 19891092.9 |        |
| 3890110 | Remedee Labs                                                                                   | 03/04/2020 | 3890110 | 20315103.0 |        |
| 3890117 | OMRON Corporation                                                                              | 24/10/2019 | 3890117 | 19889362.0 |        |
| 3890377 | ZTE Corporation                                                                                | 05/06/2014 | 3890377 | 21174132.7 |        |
| 3892238 | Jenscare Scientific Co., Ltd.                                                                  | 28/11/2019 | 3892238 | 19892150.4 |        |
| 3892510 | Robert Bosch GmbH                                                                              | 21/11/2019 | 3892510 | 19817814.7 |        |
| 3893426 | InterDigital Patent Holdings, Inc.                                                             | 23/04/2010 | 3893426 | 21177805.5 | German |
| 3894203 | Nordischer Maschinenbau<br>Rud. Baader GmbH + Co. KG                                           | 09/12/2019 | 3894203 | 19818020.0 |        |
| 3895837 | LG Energy Solution, Ltd.                                                                       | 01/10/2019 | 3895837 | 19911594.0 |        |
| 3898163 | Velcro IP Holdings LLC                                                                         | 19/12/2019 | 3898163 | 19832912.0 |        |
| 3898749 | Sika Technology AG                                                                             | 18/12/2019 | 3898749 | 19818180.2 | German |
| 3898770 | Covestro LLC<br>Covestro Deutschland AG                                                        | 13/12/2019 | 3898770 | 19836753.4 |        |
| 3900275 | Robert Bosch GmbH                                                                              | 27/11/2019 | 3900275 | 19809829.5 |        |
| 3900885 | LG Electronics Inc.                                                                            | 07/01/2019 | 3900885 | 19901092.7 |        |
| 3901024 | Accell Group B.V.                                                                              | 24/04/2020 | 3901024 | 20171409.4 | German |
| 3901069 | Hidria d.o.o.                                                                                  | 24/04/2020 | 3901069 | 20171283.3 |        |
| 3901435 | Liebherr Machines Bulle SA                                                                     | 22/04/2021 | 3901435 | 21169918.6 |        |
| 3902230 | Honeywell International Inc.                                                                   | 08/04/2021 | 3902230 | 21167525.1 |        |
| 3902806 | Janssen Pharmaceutica NV                                                                       | 25/12/2019 | 3902806 | 19903741.7 | German |
| 3905443 | Rosenberger Hochfrequenztechnik GmbH<br>& Co. KG                                               | 30/04/2020 | 3905443 | 20172513.2 |        |
| 3905713 | Anker Innovations Technology Co., Ltd.                                                         | 11/04/2019 | 3905713 | 19903387.9 |        |
| 3906739 | Nokia Technologies Oy                                                                          | 18/12/2019 | 3906739 | 19832340.4 |        |
| 3907643 | INTEL Corporation                                                                              | 22/12/2020 | 3907643 | 20216316.8 |        |

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| 3908054 | Beijing Xiaomi Mobile Software Co., Ltd.                           | 03/01/2019 | 3908054 | 19906635.8 |        |
| 3910165 | Garrett Transportation I Inc.                                      | 08/04/2021 | 3910165 | 21167498.1 |        |
| 3910842 | ZTE Corporation                                                    | 07/01/2020 | 3910842 | 20738588.1 |        |
| 3911001 | Panasonic Intellectual Property Corporation of America             | 24/09/2019 | 3911001 | 19908725.5 |        |
| 3911227 | Abiomed, Inc.                                                      | 15/01/2020 | 3911227 | 20704976.8 |        |
| 3911241 | Trophy                                                             | 16/01/2020 | 3911241 | 20701177.6 |        |
|         | Carestream Dental LLC                                              |            |         |            |        |
|         | Université de Tours                                                |            |         |            |        |
|         | Institut National de la Santé et de la Recherche Médicale (INSERM) |            |         |            |        |
|         | Centre Hospitalier Régional Universitaire de Tours                 |            |         |            |        |
| 3911242 | Trophy                                                             | 16/01/2020 | 3911242 | 20701422.6 |        |
| 3911931 | Agramkow Fluid Systems A/S                                         | 07/12/2020 | 3911931 | 20820904.9 |        |
| 3911996 | A. Schweizer GmbH Optische Fabrik                                  | 10/01/2020 | 3911996 | 20702073.6 | German |
| 3912450 | Ye, Kongmeng                                                       | 21/08/2018 | 3912450 | 18929820.1 |        |
| 3913443 | Patek Philippe SA Genève                                           | 22/05/2020 | 3913443 | 20175997.4 | French |
| 3913678 | Samsung Display Co., Ltd.                                          | 15/07/2019 | 3913678 | 19910640.2 |        |
| 3913758 | Kaiser GmbH & Co. KG                                               | 18/05/2021 | 3913758 | 21174456.0 | German |
| 3917158 | Bose Corporation                                                   | 30/10/2013 | 3917158 | 21185780.0 |        |
| 3917605 | Abiomed, Inc.                                                      | 28/01/2020 | 3917605 | 20708792.5 |        |
| 3917814 | Stellantis Auto SAS                                                | 15/01/2020 | 3917814 | 20708539.0 | French |
| 3918348 | Leeno Industrial Inc.                                              | 17/04/2020 | 3918348 | 20794276.4 |        |
| 3918513 | Intuit Inc.                                                        | 26/07/2019 | 3918513 | 19755725.9 |        |
| 3920295 | Panasonic Holdings Corporation                                     | 27/11/2019 | 3920295 | 19912849.7 |        |
|         | SANYO Electric Co., Ltd.                                           |            |         |            |        |
| 3920312 | Samsung SDI Co., Ltd.                                              | 03/06/2021 | 3920312 | 21177655.4 |        |
| 3920313 | LG Energy Solution, Ltd.                                           | 26/06/2020 | 3920313 | 20840290.9 |        |
| 3921350 | Dow Global Technologies LLC                                        | 30/01/2020 | 3921350 | 20708383.3 |        |
| 3921351 | Dow Global Technologies LLC                                        | 04/02/2020 | 3921351 | 20709061.4 |        |
| 3921639 | Siemens Healthcare Diagnostics, Inc.                               | 03/02/2020 | 3921639 | 20752340.8 |        |
| 3922187 | Arsenal Medical, Inc.                                              | 12/08/2011 | 3922187 | 21189421.7 |        |
| 3922865 | NEC Platforms, Ltd.                                                | 31/01/2020 | 3922865 | 20752168.3 |        |
| 3923382 | Zhejiang Funlithium New Energy Tech Co., Ltd.                      | 22/06/2019 | 3923382 | 19926197.5 |        |
| 3923868 | 4C Medical Technologies, Inc.                                      | 13/02/2020 | 3923868 | 20756141.6 |        |
| 3924058 | Merck Sharp & Dohme LLC                                            | 11/02/2020 | 3924058 | 20709981.3 |        |
| 3925199 | LG Electronics Inc.                                                | 12/06/2019 | 3925199 | 19915369.3 |        |
| 3925302 | Cellcontrol, Inc.                                                  | 09/01/2020 | 3925302 | 20755622.6 |        |
| 3925989 | Dow Global Technologies LLC                                        | 26/06/2014 | 3925989 | 21183736.4 |        |
| 3926456 | Samsung Electronics Co., Ltd.                                      | 22/03/2021 | 3926456 | 21164000.8 |        |
| 3926502 | Zscaler, Inc.                                                      | 29/04/2021 | 3926502 | 21171334.2 |        |
| 3926536 | Tata Consultancy Services Limited                                  | 15/06/2021 | 3926536 | 21179523.2 |        |
| 3926597 | Honeywell International Inc.                                       | 02/06/2021 | 3926597 | 21177510.1 |        |
| 3927055 | Sharp Kabushiki Kaisha                                             | 13/02/2020 | 3927055 | 20754997.3 |        |
| 3928084 | Endress+Hauser Optical Analysis, Inc.                              | 14/02/2020 | 3928084 | 20715506.0 |        |
| 3928310 | Valve Corporation                                                  | 24/03/2020 | 3928310 | 20783797.2 |        |
| 3929723 | Beijing Xiaomi Mobile Software Co., Ltd.                           | 26/03/2021 | 3929723 | 21165365.4 |        |
| 3930625 | Herting, Torsten                                                   | 28/02/2020 | 3930625 | 20712442.1 | German |
| 3931944 | Nidec PSA Emotors                                                  | 25/02/2020 | 3931944 | 20713722.5 | French |
| 3931969 | Telefonaktiebolaget LM Ericsson (publ)                             | 27/02/2019 | 3931969 | 19708096.3 |        |
| 3932856 | Helmholtz-Zentrum hereon GmbH                                      | 01/07/2020 | 3932856 | 20183448.8 |        |
|         | Stühff GmbH                                                        |            |         |            |        |
| 3933441 | Shanghai Anyeye Technology Co., Ltd.                               | 12/02/2020 | 3933441 | 20778008.1 |        |
| 3934243 | Chengdu Xgimi Technology Co., Ltd                                  | 13/03/2020 | 3934243 | 20887775.3 |        |
| 3934266 | Samsung Electronics Co., Ltd.                                      | 17/02/2020 | 3934266 | 20769597.4 |        |
| 3934556 | Intuitive Surgical Operations, Inc.                                | 04/03/2020 | 3934556 | 20766885.6 |        |
| 3934673 | Massachusetts Institute of Technology                              | 10/01/2020 | 3934673 | 20704372.0 |        |
|         | Ohio State Innovation Foundation                                   |            |         |            |        |
| 3934866 | Ceraloc Innovation AB                                              | 04/03/2020 | 3934866 | 20766520.9 |        |
| 3936069 | Olympus Winter & Ibe GmbH                                          | 28/06/2021 | 3936069 | 21182114.5 | German |

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| 3936335 | Nitto Denko Corporation                                                          | 13/02/2020 | 3936335 | 20766901.1 |        |
| 3937753 | THE BOARD OF TRUSTEES<br>OF THE UNIVERSITY OF ILLINOIS                           | 13/03/2020 | 3937753 | 20771123.5 |        |
| 3937782 | Siemens Healthineers AG                                                          | 24/05/2019 | 3937782 | 19729639.5 | German |
| 3938070 | Verma, Vivek                                                                     | 13/03/2020 | 3938070 | 20769686.5 |        |
| 3938250 | Oyak Renault Otomobil Fabrikalari Anonim<br>Sirketi                              | 18/11/2020 | 3938250 | 20839412.2 |        |
| 3938438 | Apollo Tyres Global R&D B.V.                                                     | 13/03/2020 | 3938438 | 20709250.3 |        |
| 3939892 | Honeywell International Inc.                                                     | 05/07/2021 | 3939892 | 21183831.3 |        |
| 3940232 | Agostini, Leandro José                                                           | 13/03/2020 | 3940232 | 20773775.0 |        |
| 3940987 | VTect IP Inc.                                                                    | 22/01/2009 | 3940987 | 21196421.8 |        |
| 3941008 | Samsung Electronics Co., Ltd.                                                    | 15/10/2019 | 3941008 | 21182532.8 |        |
| 3942294 | Waters Technologies Corporation                                                  | 18/03/2020 | 3942294 | 20718980.4 |        |
| 3942576 | Littelfuse Electronics (Shanghai) Co., Ltd.                                      | 22/03/2019 | 3942576 | 19921603.7 |        |
| 3942650 | MetaVC Patent Holding Company                                                    | 20/03/2020 | 3942650 | 20772827.0 |        |
| 3943346 | AUMOVIO Germany GmbH                                                             | 27/05/2021 | 3943346 | 21176196.0 |        |
| 3943442 | Kuhn Rikon AG                                                                    | 20/07/2020 | 3943442 | 20186749.6 |        |
| 3943452 | LG CHEM, LTD.                                                                    | 19/11/2020 | 3943452 | 20889802.3 |        |
| 3943999 | Lockheed Martin Corporation                                                      | 19/07/2021 | 3943999 | 21186476.4 |        |
| 3945353 | OpenLight Photonics, Inc.                                                        | 25/06/2021 | 3945353 | 21181859.6 |        |
| 3946184 | AMO Development, LLC                                                             | 20/03/2020 | 3946184 | 20783091.0 |        |
| 3946250 | ForSight Vision6, Inc.                                                           | 03/04/2020 | 3946250 | 20785372.2 |        |
| 3947005 | VOLKSWAGEN<br>AKTIENGESELLSCHAFT                                                 | 11/03/2020 | 3947005 | 20712478.5 | German |
| 3947149 | ZIM IP AMERICA INC.                                                              | 30/03/2020 | 3947149 | 20782399.8 |        |
| 3947496 | Stratasys Ltd.                                                                   | 01/04/2020 | 3947496 | 20720947.9 |        |
| 3948161 | VOLKSWAGEN<br>AKTIENGESELLSCHAFT                                                 | 20/03/2020 | 3948161 | 20713273.9 | German |
| 3948696 | International Business Machines<br>Corporation                                   | 17/03/2020 | 3948696 | 20712307.6 |        |
| 3948846 | Bose Corporation                                                                 | 31/03/2020 | 3948846 | 20720697.0 |        |
| 3949338 | Friedman, Seth, Gregory                                                          | 04/05/2020 | 3949338 | 20801967.9 |        |
| 3949408 | Zhejiang Dahua Technology Co., Ltd.                                              | 27/12/2019 | 3949408 | 19934684.2 |        |
| 3949837 | Arterys Inc.                                                                     | 16/01/2015 | 3949837 | 21198658.3 |        |
| 3950718 | West China Hospital, Sichuan University                                          | 12/11/2019 | 3950718 | 19900565.3 |        |
| 3951041 | Wuxi Little Swan Electric Co., Ltd.                                              | 14/05/2019 | 3951041 | 19920999.0 |        |
| 3951569 | ZTE Corporation                                                                  | 08/07/2020 | 3951569 | 20860803.4 |        |
| 3952109 | ZTE Corporation                                                                  | 31/12/2019 | 3952109 | 19927206.3 |        |
| 3952235 | Huawei Technologies Co., Ltd.                                                    | 23/11/2016 | 3952235 | 21182080.8 |        |
| 3952367 | ZTE Corporation                                                                  | 30/03/2020 | 3952367 | 20779067.6 |        |
| 3953194 | Volkswagen Aktiengesellschaft                                                    | 06/02/2020 | 3953194 | 20705306.7 | German |
| 3953879 | CARNEGIE MELLON UNIVERSITY<br>Shanghai Hanshi Information Technology<br>Co. Ltd. | 13/04/2020 | 3953879 | 20786824.1 |        |
| 3954189 | LG Electronics Inc.                                                              | 01/08/2019 | 3954189 | 21193991.3 |        |
| 3954436 | Orizuru Therapeutics, Inc.                                                       | 09/04/2020 | 3954436 | 20787264.9 |        |
| 3954745 | Kabushiki Kaisha Pilot Corporation (also<br>trading as Pilot Corporation)        | 30/03/2020 | 3954745 | 20786835.7 |        |
| 3955157 | Weatherford Technology Holdings, LLC                                             | 27/07/2016 | 3955157 | 21192897.3 |        |
| 3956113 | Festo SE & Co. KG                                                                | 18/05/2020 | 3956113 | 20726809.5 | German |
| 3956281 | KetoLipix Therapeutics GmbH                                                      | 12/06/2019 | 3956281 | 19731647.4 | German |
| 3956657 | Framatome                                                                        | 17/04/2020 | 3956657 | 20720026.2 | French |
| 3958317 | Samsung Display Co., Ltd.                                                        | 03/03/2020 | 3958317 | 20790485.5 |        |
| 3958375 | LG Energy Solution, Ltd.                                                         | 12/05/2020 | 3958375 | 20818358.2 |        |
| 3959140 | AeroVironment, Inc.                                                              | 23/04/2020 | 3959140 | 20841309.6 |        |
| 3959446 | Edwards Limited                                                                  | 24/04/2020 | 3959446 | 20723499.8 |        |
| 3959480 | University of Kansas                                                             | 24/04/2020 | 3959480 | 20794611.2 |        |
| 3960998 | PRATT & WHITNEY CANADA CORP.                                                     | 26/08/2021 | 3960998 | 21193372.6 |        |
| 3961439 | Samsung Electronics Co., Ltd.                                                    | 11/03/2020 | 3961439 | 20798793.4 |        |
| 3961580 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                               | 19/08/2021 | 3961580 | 21192229.9 |        |
| 3962387 | Biosense Webster (Israel) Ltd.                                                   | 03/05/2020 | 3962387 | 20728818.4 |        |

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| 3963062 | Specific Biologics Inc.                          | 04/05/2020 | 3963062 | 20802633.6 |        |
| 3963702 | thyssenkrupp Presta AG                           | 29/04/2020 | 3963702 | 20723109.3 | German |
|         | thyssenkrupp AG                                  |            |         |            |        |
| 3963755 | Boost SubscriberCo L.L.C.                        | 28/04/2020 | 3963755 | 20727017.4 |        |
| 3963809 | QUALCOMM INCORPORATED                            | 01/05/2020 | 3963809 | 20727086.9 |        |
| 3963968 | Qualcomm Incorporated                            | 24/04/2020 | 3963968 | 20726603.2 |        |
| 3964643 | Shanghai Press Intimates Co., Ltd.               | 11/11/2019 | 3964643 | 19928689.9 |        |
| 3964946 | UiPath, Inc.                                     | 30/09/2020 | 3964946 | 20199241.9 |        |
| 3965532 | E. Zoller GmbH & Co. KG Einstell- und Messgeräte | 30/08/2021 | 3965532 | 21193746.1 | German |
| 3966247 | Brown University                                 | 06/05/2020 | 3966247 | 20801507.3 |        |
| 3966285 | BASF SE                                          | 04/05/2020 | 3966285 | 20724438.5 |        |
| 3966561 | Univ South China Normal                          | 15/05/2019 | 3966561 | 19928189.0 |        |
| 3966685 | Cisco Technology, Inc.                           | 01/05/2020 | 3966685 | 20727510.8 |        |
| 3967056 | Bose Corporation                                 | 08/05/2020 | 3967056 | 20729414.1 |        |
| 3967327 | Caregen Co., Ltd.                                | 06/05/2020 | 3967327 | 20802679.9 |        |
| 3967352 | ResMed Pty Ltd                                   | 16/01/2014 | 3967352 | 21184115.0 |        |
| 3967534 | SUZUKI MOTOR CORPORATION                         | 28/01/2020 | 3967534 | 20802115.4 |        |
|         | SUBARU CORPORATION                               |            |         |            |        |
|         | TOYOTA JIDOSHA KABUSHIKI                         |            |         |            |        |
|         | KAISHA                                           |            |         |            |        |
|         | HINO MOTORS, LTD.                                |            |         |            |        |
|         | ISUZU MOTORS LIMITED                             |            |         |            |        |
|         | MAZDA MOTOR CORPORATION                          |            |         |            |        |
|         | YAMAHA HATSUDOKI KABUSHIKI                       |            |         |            |        |
|         | KAISHA                                           |            |         |            |        |
| 3967714 | Tokushima University                             | 08/05/2020 | 3967714 | 20805833.9 |        |
|         | Sekisui Chemical Co., Ltd.                       |            |         |            |        |
| 3968281 | Tata Consultancy Services Limited                | 18/08/2021 | 3968281 | 21191835.4 |        |
| 3968592 | Deutsche Telekom AG                              | 14/09/2020 | 3968592 | 20195992.1 |        |
| 3969013 | Topix Pharmaceuticals, Inc.                      | 08/01/2021 | 3969013 | 21703347.1 |        |
| 3970149 | Koninklijke Philips N.V.                         | 08/05/2020 | 3970149 | 20723173.9 |        |
| 3970422 | Telefonaktiebolaget LM Ericsson (publ)           | 12/05/2020 | 3970422 | 20806590.4 |        |
| 3970671 | bayer Feinwerk GmbH & Co. KG                     | 10/09/2021 | 3970671 | 21196159.4 | German |
| 3971249 | Samsung Display Co., Ltd.                        | 27/08/2021 | 3971249 | 21193628.1 |        |
| 3971628 | Valeo Comfort and Driving Assistance             | 22/09/2020 | 3971628 | 20197593.5 |        |
| 3971688 | Beijing Xiaomi Mobile Software Co., Ltd.         | 26/05/2021 | 3971688 | 21175911.3 |        |
| 3972523 | Martz, Andrew, S.                                | 19/05/2020 | 3972523 | 20731321.4 |        |
|         | Martz, Martin, G.                                |            |         |            |        |
| 3972887 | Audi AG                                          | 20/05/2020 | 3972887 | 20729650.0 | German |
| 3972923 | Cummins Filtration IP, Inc.                      | 15/05/2020 | 3972923 | 20809317.9 |        |
| 3973088 | Hefei Gotion High-Tech Power Energy Co., Ltd.    | 22/05/2019 | 3973088 | 19929426.5 |        |
| 3973917 | Kabushiki Kaisha Shofu                           | 21/09/2021 | 3973917 | 21197915.8 |        |
| 3973948 | Giuliani S.p.A.                                  | 29/07/2019 | 3973948 | 22152960.5 |        |
| 3973984 | London School of Hygiene & Tropical Medicine     | 21/01/2014 | 3973984 | 21198119.6 |        |
| 3974285 | Siemens Mobility GmbH                            | 09/09/2021 | 3974285 | 21195718.8 | German |
| 3974638 | Cummins, Inc.                                    | 05/09/2014 | 3974638 | 21205808.5 |        |
| 3974711 | ZKW Group GmbH                                   | 24/09/2020 | 3974711 | 20198130.5 | German |
| 3976054 | The Cleveland Clinic Foundation                  | 22/05/2020 | 3976054 | 20814645.6 |        |
| 3977257 | Google LLC                                       | 31/05/2019 | 3977257 | 19736539.8 |        |
| 3977340 | Bayer Aktiengesellschaft                         | 27/05/2020 | 3977340 | 20729048.7 | German |
| 3977709 | Legic Identsystems AG                            | 25/05/2020 | 3977709 | 20728033.0 |        |
| 3977939 | Medimetrix LLC                                   | 10/09/2019 | 3977939 | 21210571.2 |        |
| 3980139 | Minimax Viking Patent Management GmbH            | 08/06/2020 | 3980139 | 20732171.2 | German |
| 3980964 | Faiveley Transport Tours                         | 03/06/2020 | 3980964 | 20740377.5 | French |
| 3981059 | Eaton Intelligent Power Limited                  | 05/06/2020 | 3981059 | 20731449.3 |        |
| 3981137 | Cisco Technology, Inc.                           | 27/05/2020 | 3981137 | 20733508.4 |        |
| 3982711 | CNH Industrial Belgium NV                        | 12/06/2020 | 3982711 | 20751770.7 |        |
| 3983919 | Microsoft Technology Licensing, LLC              | 28/04/2020 | 3983919 | 20727457.2 |        |

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| 3983998 | Hinge Health, Inc.                                             | 27/03/2020 | 3983998 | 20821699.4 |        |
| 3984168 | Nextiva, Inc.                                                  | 11/06/2020 | 3984168 | 20822084.8 |        |
| 3984424 | Vorwerk & Co. Interholding GmbH                                | 16/10/2020 | 3984424 | 20202271.1 | German |
| 3984446 | i-Sens, Inc.                                                   | 13/03/2020 | 3984446 | 20841157.9 |        |
| 3984776 | BRIDGESTONE CORPORATION                                        | 27/05/2020 | 3984776 | 20822002.0 |        |
| 3984785 | BRIDGESTONE CORPORATION                                        | 05/06/2020 | 3984785 | 20823377.5 |        |
| 3984868 | Mobility Holdings, Limited                                     | 19/10/2020 | 3984868 | 20202530.0 |        |
| 3985361 | Ishida Co., Ltd.                                               | 29/05/2020 | 3985361 | 20851675.7 |        |
| 3985702 | GE Vernova Technology GmbH                                     | 19/10/2020 | 3985702 | 20202630.8 |        |
| 3985809 | The Board of Trustees of the Leland Stanford Junior University | 15/10/2021 | 3985809 | 21202795.7 |        |
| 3986255 | Stryker Corporation                                            | 18/06/2020 | 3986255 | 20826133.9 |        |
| 3986338 | C Lindhextend AB                                               | 18/06/2020 | 3986338 | 20733973.0 |        |
| 3987241 | 2360216 Ontario Inc.                                           | 19/06/2020 | 3987241 | 20826086.9 |        |
| 3987320 | Magseis FF LLC                                                 | 30/07/2019 | 3987320 | 19880960.0 |        |
| 3987715 | Nokia Technologies Oy                                          | 17/06/2020 | 3987715 | 20737077.6 |        |
| 3987746 | Amazon Technologies, Inc.                                      | 17/06/2020 | 3987746 | 20751821.8 |        |
| 3987955 | Japan Tobacco Inc.                                             | 29/11/2019 | 3987955 | 19953966.9 |        |
| 3988728 | iPEK International GmbH                                        | 20/10/2020 | 3988728 | 20202898.1 | German |
| 3988874 | BSH Hausgeräte GmbH                                            | 22/09/2021 | 3988874 | 21198187.3 |        |
| 3989320 | Prime Planet Energy & Solutions, Inc.                          | 16/09/2021 | 3989320 | 21197246.8 |        |
| 3989388 | LG Energy Solution, Ltd.                                       | 01/07/2021 | 3989388 | 21840767.4 |        |
| 3989612 | Samsung Electronics Co., Ltd.                                  | 19/06/2020 | 3989612 | 20826178.4 |        |
| 3992409 | LÖWE Fenster Löffler GmbH                                      | 10/11/2020 | 3992409 | 20206676.7 | German |
| 3992628 | Università degli Studi di Bari "Aldo Moro"                     | 29/10/2021 | 3992628 | 21205434.0 |        |
| 3993059 | LG Display Co., Ltd.                                           | 26/10/2021 | 3993059 | 21204694.0 |        |
| 3993111 | Kolon Industries, Inc.                                         | 26/06/2020 | 3993111 | 20830517.7 |        |
|         | Korea Advanced Institute of Science and Technology             |            |         |            |        |
| 3994603 | Everseen Limited                                               | 12/05/2020 | 3994603 | 20726560.4 |        |
| 3994931 | Qualcomm Incorporated                                          | 04/07/2019 | 3994931 | 19935856.5 |        |
| 3995539 | Oleotecnica S.p.A.                                             | 06/11/2020 | 3995539 | 20206323.6 |        |
| 3995970 | Samsung Electronics Co., Ltd.                                  | 20/09/2021 | 3995970 | 21197695.6 |        |
| 3996425 | NXP B.V.                                                       | 05/11/2020 | 3996425 | 20206002.6 |        |
| 3996593 | Neuralink Corp.                                                | 09/07/2020 | 3996593 | 20838873.6 |        |
| 3996609 | Covidien LP                                                    | 10/06/2020 | 3996609 | 20836697.1 |        |
| 3997614 | VOLKSWAGEN                                                     | 25/06/2020 | 3997614 | 20735321.0 | German |
|         | AKTIENGESELLSCHAFT                                             |            |         |            |        |
| 3998077 | Thornhill Therapeutics, Inc.                                   | 07/05/2015 | 3998077 | 21199457.9 |        |
| 3998336 | The Regents of the University of California                    | 27/04/2018 | 3998336 | 21190111.1 |        |
| 3998635 | Samsung Display Co., Ltd.                                      | 02/07/2020 | 3998635 | 20840157.0 |        |
| 3998891 | Danke Pelletteria S.r.l.                                       | 15/07/2020 | 3998891 | 20757663.8 |        |
| 3999021 | Henkel AG & Co. KGaA                                           | 06/07/2020 | 3999021 | 20737156.8 | German |
| 3999764 | NORMA Germany GmbH                                             | 13/07/2020 | 3999764 | 20740590.3 | German |
| 3999812 | Jaguar Land Rover Limited                                      | 17/07/2020 | 3999812 | 20743656.9 |        |
| 3999999 | Promaton Holding B.V.                                          | 15/07/2020 | 3999999 | 20740315.5 |        |
| 4000194 | Telefonaktiebolaget LM Ericsson (publ)                         | 17/07/2019 | 4000194 | 19742714.9 |        |
| 4000220 | Texas Instruments Incorporated                                 | 20/07/2020 | 4000220 | 20844609.6 |        |
| 4000721 | MAHLE International GmbH                                       | 18/11/2021 | 4000721 | 21208962.7 | German |
| 4000809 | Robert Bosch GmbH                                              | 03/11/2021 | 4000809 | 21206133.7 | German |
| 4000992 | ABB E-mobility B.V.                                            | 19/11/2020 | 4000992 | 20208727.6 |        |
| 4001047 | ALSTOM Holdings                                                | 12/11/2021 | 4001047 | 21207889.3 | French |
| 4001202 | Pisek - Vitli Krpan, d.o.o.                                    | 08/11/2021 | 4001202 | 21206869.6 |        |
| 4001367 | Xerox Corporation                                              | 22/11/2021 | 4001367 | 21209707.5 |        |
| 4001614 | Hamilton Sundstrand Corporation                                | 10/11/2021 | 4001614 | 21207485.0 |        |
| 4002079 | Sintokogio, Ltd.                                               | 08/11/2021 | 4002079 | 21206898.5 |        |
| 4002227 | IQM Finland Oy                                                 | 23/11/2020 | 4002227 | 20209130.2 |        |
| 4002285 | Dassault Systèmes                                              | 13/10/2017 | 4002285 | 21209920.4 |        |
| 4002696 | Huawei Technologies Co., Ltd.                                  | 06/11/2018 | 4002696 | 21193006.0 |        |
| 4003202 | Erbe Elektromedizin GmbH                                       | 21/07/2020 | 4003202 | 20740638.0 | German |
| 4003453 | Becton, Dickinson and Company                                  | 23/07/2020 | 4003453 | 20843366.4 |        |
| 4004688 | Micron Technology, Inc.                                        | 20/07/2020 | 4004688 | 20847643.2 |        |

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| 4004812 | Volkswagen Group of America Investments, LLC                               | 04/08/2020 | 4004812 | 20850216.1 |        |
| 4004953 | ABB E-mobility B.V.                                                        | 15/10/2019 | 4004953 | 19783577.0 |        |
| 4005521 | Covidien LP                                                                | 31/01/2019 | 4005521 | 21216896.7 |        |
| 4005679 | Alfdex AB                                                                  | 30/11/2020 | 4005679 | 20210560.7 |        |
| 4005947 | Wang, Soo Jung<br>Wang, Young Bin<br>Song, Bang Hyang                      | 25/06/2020 | 4005947 | 20843686.5 |        |
| 4006803 | The Swatch Group Research and Development Ltd                              | 30/11/2020 | 4006803 | 20210654.8 | French |
| 4007631 | Nucletron Operations B.V.                                                  | 03/08/2020 | 4007631 | 20750782.3 |        |
| 4009709 | Datang Mobile Communications Equipment Co., Ltd.                           | 01/07/2020 | 4009709 | 20847552.5 |        |
| 4009876 | Koninklijke Philips N.V.                                                   | 31/07/2020 | 4009876 | 20750641.1 |        |
| 4009919 | Acandis GmbH                                                               | 21/07/2020 | 4009919 | 20745131.1 | German |
| 4010090 | Triple Track, LLC                                                          | 24/07/2020 | 4010090 | 20850745.9 |        |
| 4010155 | SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA                     | 15/07/2020 | 4010155 | 20740419.5 |        |
| 4010575 | Safran Nacelles                                                            | 04/08/2020 | 4010575 | 20757648.9 | French |
| 4010810 | MO-DV, Inc.                                                                | 22/06/2020 | 4010810 | 20850194.0 |        |
| 4011694 | POSCO Co., Ltd                                                             | 28/05/2020 | 4011694 | 20852303.5 |        |
| 4011898 | TWi Biotechnology, Inc.                                                    | 07/08/2020 | 4011898 | 20852240.9 |        |
| 4012116 | Hitachi Construction Machinery Co., Ltd.                                   | 28/10/2020 | 4012116 | 20881631.4 |        |
| 4013140 | Vivo Mobile Communication Co., Ltd.                                        | 05/08/2020 | 4013140 | 20850615.4 |        |
| 4013191 | BSH Hausgeräte GmbH                                                        | 16/11/2021 | 4013191 | 21208472.7 | German |
| 4013279 | Avidbots Corp.                                                             | 12/08/2020 | 4013279 | 20851459.6 |        |
| 4014711 | Molina Cabrera, Pablo Roberto<br>CLAAS Selbstfahrende Erntemaschinen GmbH  | 29/09/2021 | 4014711 | 21199792.9 | German |
| 4015544 | ENEOS Materials Corporation                                                | 11/08/2020 | 4015544 | 20851982.7 |        |
| 4015756 | REHAU Industries SE & Co. KG                                               | 13/12/2021 | 4015756 | 21214000.8 | German |
| 4017496 | Loh, Yin Sze                                                               | 14/07/2020 | 4017496 | 20854153.2 |        |
| 4017732 | The Procter & Gamble Company                                               | 18/08/2020 | 4017732 | 20765462.5 |        |
| 4017772 | Volkswagen Group of America Investments, LLC                               | 18/08/2020 | 4017772 | 20854761.2 |        |
| 4018227 | JBT Marel Corporation                                                      | 18/08/2020 | 4018227 | 20765146.4 |        |
| 4020235 | Altera Corporation                                                         | 16/09/2021 | 4020235 | 21197142.9 |        |
| 4020810 | Altera Corporation                                                         | 20/09/2021 | 4020810 | 21197619.6 |        |
| 4021071 | LG Electronics Inc.                                                        | 07/10/2020 | 4021071 | 20874418.5 |        |
| 4021274 | THE GENERAL HOSPITAL CORPORATION                                           | 25/08/2020 | 4021274 | 20858707.1 |        |
| 4021803 | Safran Seats USA LLC                                                       | 30/08/2019 | 4021803 | 19768985.4 |        |
| 4022283 | FOSS Analytical A/S                                                        | 29/05/2020 | 4022283 | 20730489.0 |        |
| 4022296 | Chemelex Europe GmbH                                                       | 27/08/2020 | 4022296 | 20781394.0 |        |
| 4022564 | Hover Inc.                                                                 | 27/08/2020 | 4022564 | 20859444.0 |        |
| 4022821 | QUALCOMM INCORPORATED                                                      | 28/07/2020 | 4022821 | 20754586.4 |        |
| 4023085 | Shenzhen Huachengda Precision Industry Co., Ltd.                           | 18/09/2020 | 4023085 | 20953713.3 |        |
| 4023117 | Guan, Jinye                                                                | 18/05/2020 | 4023117 | 20859261.8 |        |
| 4023233 | Sator Therapeutics LLC                                                     | 27/09/2017 | 4023233 | 22151215.5 |        |
| 4025156 | DENTSPLY SIRONA Inc.                                                       | 03/09/2020 | 4025156 | 20772506.0 |        |
| 4026586 | Saenz Julia, Jose Manuel                                                   | 11/02/2021 | 4026586 | 21754038.4 |        |
| 4027892 | Buros, Julie, C.                                                           | 11/09/2020 | 4027892 | 20863983.1 |        |
| 4028213 | Eurobotik Otomasyon Ve Goruntu Isleme Teknolojileri San. Ve Tic. Ltd. Sti. | 09/07/2020 | 4028213 | 20863527.6 |        |
| 4028246 | GRTgaz                                                                     | 10/09/2020 | 4028246 | 20768044.8 | French |
| 4028559 | Shrestha, Devjani Ghosh                                                    | 15/08/2020 | 4028559 | 20851950.4 |        |
| 4029923 | OCI Company Ltd.                                                           | 14/01/2022 | 4029923 | 22151673.5 |        |
| 4030409 | MBDA France                                                                | 24/11/2021 | 4030409 | 21210301.4 | French |
| 4030551 | Prime Planet Energy & Solutions, Inc.                                      | 20/12/2021 | 4030551 | 21215939.6 |        |
| 4030769 | Panasonic Intellectual Property Corporation of America                     | 30/01/2017 | 4030769 | 22155822.4 |        |



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|---------|---------------------------------------------|------------|---------|------------|--------|
| 4030968 | Steelcase Inc.                              | 16/09/2020 | 4030968 | 20865593.6 | German |
| 4031097 | Henkel AG & Co. KGaA                        | 06/07/2020 | 4031097 | 20737155.0 |        |
| 4031225 | Iberhospitex S.A.                           | 18/09/2020 | 4031225 | 20775612.3 |        |
| 4031730 | Brokk Aktiebolag                            | 15/09/2020 | 4031730 | 20865706.4 |        |
| 4032143 | Huawei Technologies Co., Ltd.               | 09/10/2020 | 4032143 | 20877058.6 |        |
| 4032234 | Cisco Technology, Inc.                      | 15/09/2020 | 4032234 | 20781228.0 |        |
| 4032563 | Access Closure, Inc.                        | 28/05/2015 | 4032563 | 21216537.7 |        |
| 4032708 | CANON KABUSHIKI KAISHA                      | 21/01/2021 | 4032708 | 21152840.1 |        |
| 4033502 | Proterial, Ltd.                             | 19/01/2022 | 4033502 | 22152208.9 |        |
| 4034825 | Electrolux Home Products, Inc.              | 11/09/2020 | 4034825 | 20785621.2 |        |
| 4035864 | NISSEI ASB MACHINE CO., LTD.                | 25/09/2020 | 4035864 | 20870424.7 | German |
| 4036205 | GeneMind Biosciences Company Limited        | 14/07/2020 | 4036205 | 20868405.0 |        |
| 4036697 | FlatFrog Laboratories AB                    | 06/02/2018 | 4036697 | 22158168.9 |        |
| 4036701 | Apple Inc.                                  | 02/05/2018 | 4036701 | 22163203.7 |        |
| 4036822 | Tata Consultancy Services Limited           | 25/01/2022 | 4036822 | 22153105.6 |        |
| 4036849 | BROTHER KOGYO KABUSHIKI KAISHA              | 15/09/2020 | 4036849 | 20868059.5 |        |
| 4037432 | LG Electronics Inc.                         | 27/01/2022 | 4037432 | 22153584.2 |        |
| 4037529 | X-Plast Kft.                                | 02/10/2020 | 4037529 | 20835861.4 |        |
| 4037615 | Howmedica Osteonics Corp.                   | 30/09/2020 | 4037615 | 20796968.4 |        |
| 4037681 | Kenvue Brands LLC                           | 15/09/2020 | 4037681 | 20775416.9 |        |
| 4037803 | Robert Bosch GmbH                           | 21/09/2020 | 4037803 | 20775855.8 | German |
| 4037946 | Zoox, Inc.                                  | 16/09/2020 | 4037946 | 20781693.5 |        |
| 4038073 | Kasis Environmental Ltd.                    | 02/10/2020 | 4038073 | 20872033.4 |        |
| 4038306 | Pipetronics GmbH&Co. KG                     | 01/10/2020 | 4038306 | 20789447.8 |        |
| 4038492 | Dublin City University                      | 30/09/2020 | 4038492 | 20775802.0 |        |
| 4038967 | Huawei Technologies Co., Ltd.               | 09/11/2020 | 4038967 | 20884735.0 |        |
| 4040016 | Valeo Kapec Co., Ltd.                       | 28/10/2020 | 4040016 | 20898351.0 |        |
| 4040814 | Huawei Technologies Co., Ltd.               | 05/11/2020 | 4040814 | 20885519.7 |        |
| 4040862 | Telefonaktiebolaget LM Ericsson (publ)      | 16/11/2018 | 4040862 | 21217441.1 |        |
| 4041942 | Württembergische Spiralsiebfabrik GmbH      | 07/10/2020 | 4041942 | 20788750.6 | German |
| 4042651 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)      | 05/10/2020 | 4042651 | 20789035.1 |        |
| 4042769 | Huawei Technologies Co., Ltd.               | 06/11/2020 | 4042769 | 20884035.5 |        |
| 4044320 | Huawei Digital Power Technologies Co., Ltd. | 06/11/2020 | 4044320 | 20884492.8 |        |
| 4044403 | NIPPON STEEL CORPORATION                    | 06/10/2020 | 4044403 | 20874386.4 |        |
| 4044558 | Huawei Technologies Co., Ltd.               | 12/11/2020 | 4044558 | 20895106.1 |        |
| 4044752 | Huawei Technologies Co., Ltd.               | 04/11/2019 | 4044752 | 19951321.9 |        |
| 4044774 | LG Innotek Co., Ltd.                        | 08/10/2020 | 4044774 | 20873457.4 |        |
| 4045833 | Purflux Filtration                          | 15/10/2020 | 4045833 | 20799785.9 | French |
| 4045885 | AirFlow Direction, Inc.                     | 17/10/2020 | 4045885 | 20876844.0 |        |
| 4045991 | BlueBotics SA                               | 15/10/2020 | 4045991 | 20797195.3 |        |
| 4046081 | Microsoft Technology Licensing, LLC         | 18/10/2020 | 4046081 | 20804718.3 |        |
| 4046231 | Kautex Textron GmbH & Co. KG                | 04/05/2020 | 4046231 | 20725995.3 | German |
| 4046733 | Tungaloy Corporation                        | 18/02/2022 | 4046733 | 22157380.1 |        |
| 4046895 | MAZDA MOTOR CORPORATION                     | 09/10/2020 | 4046895 | 20877928.0 |        |
| 4047099 | CJ Cheiljedang Corporation                  | 09/09/2020 | 4047099 | 20889845.2 |        |
| 4047190 | Doosan Enerbility Co., Ltd.                 | 22/02/2022 | 4047190 | 22157991.5 |        |
| 4047972 | Honeywell International Inc.                | 17/02/2022 | 4047972 | 22157239.9 |        |
| 4048106 | A7 Fitness Inc.                             | 28/09/2020 | 4048106 | 20878685.5 |        |
| 4048279 | Celgene Corporation                         | 20/10/2020 | 4048279 | 20807936.8 |        |
| 4049604 | Biosense Webster (Israel) Ltd               | 25/02/2022 | 4049604 | 22158765.2 |        |
| 4049681 | Neurocrine Biosciences, Inc.                | 06/02/2015 | 4049681 | 21216409.9 | German |
| 4049996 | Sumitomo Chemical Company, Limited          | 28/08/2020 | 4049996 | 20879365.3 |        |
| 4050091 | Ricoh Company, Ltd.                         | 25/02/2022 | 4050091 | 22158885.8 |        |
| 4050305 | Huawei Technologies Co., Ltd.               | 06/11/2020 | 4050305 | 20887084.0 |        |
| 4050401 | Nanchang Tripole Optoelectronics Co., Ltd.  | 27/01/2022 | 4050401 | 22153750.9 |        |
| 4050485 | Huawei Technologies Co., Ltd.               | 05/11/2020 | 4050485 | 20890994.5 |        |
| 4050895 | Dolby Laboratories Licensing Corporation    | 06/05/2016 | 4050895 | 21210679.3 |        |
| 4051016 | R.P. Scherer Technologies, LLC              | 27/10/2020 | 4051016 | 20880928.5 |        |

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| 4051166 | VITA-ZAHNFABRIK H. Rauter GmbH & Co. KG                             | 20/10/2020 | 4051166 | 20790034.1 | German |
| 4051628 | Hysilabs, SAS                                                       | 29/10/2020 | 4051628 | 20796829.8 |        |
| 4051828 | Industrie De Nora S.P.A.                                            | 27/10/2020 | 4051828 | 20793712.9 |        |
| 4052902 | Borealis GmbH                                                       | 01/03/2021 | 4052902 | 21160081.2 |        |
|         | Abu Dhabi Polymers Co. Ltd (Borouge) LLC                            |            |         |            |        |
| 4053039 | Henkel AG & Co. KGaA                                                | 03/03/2021 | 4053039 | 21160371.7 | German |
| 4053592 | NXP B.V.                                                            | 18/02/2022 | 4053592 | 22157388.4 |        |
| 4054292 | Franz Haimer Maschinenbau KG                                        | 17/02/2022 | 4054292 | 22157265.4 | German |
| 4054425 | Praxis Holding LLC                                                  | 09/10/2020 | 4054425 | 20873633.0 |        |
| 4054443 | Medacta International SA                                            | 03/11/2020 | 4054443 | 20821368.6 |        |
| 4054698 | Diality Inc.                                                        | 03/11/2020 | 4054698 | 20884874.7 |        |
| 4055118 | ExxonMobil Chemical Patents Inc.                                    | 27/10/2020 | 4055118 | 20807983.0 |        |
| 4056123 | Daegu Gyeongbuk Institute Of Science and Technology                 | 06/11/2020 | 4056123 | 20885677.3 |        |
| 4056570 | JING MEDICINE TECHNOLOGY (SHANGHAI) LTD. ShanghaiTech University    | 02/11/2020 | 4056570 | 20882541.4 |        |
| 4056878 | ArvinMeritor Technology, LLC                                        | 17/02/2022 | 4056878 | 22157164.9 |        |
| 4057055 | LG Chem, Ltd.                                                       | 04/11/2020 | 4057055 | 20883991.0 |        |
| 4057575 | Infineon Technologies Americas Corp.                                | 10/03/2022 | 4057575 | 22161387.0 |        |
| 4057758 | NTT DOCOMO, INC.                                                    | 07/11/2019 | 4057758 | 19951366.4 |        |
| 4058040 | Neilos S.r.l.                                                       | 11/11/2020 | 4058040 | 20820531.0 |        |
| 4058079 | Fresenius Medical Care Deutschland GmbH                             | 04/11/2020 | 4058079 | 20801223.7 |        |
| 4058674 | Edwards Vacuum LLC                                                  | 06/11/2020 | 4058674 | 20807512.7 |        |
| 4058743 | Heineken Supply Chain B.V.                                          | 13/11/2020 | 4058743 | 20811463.7 |        |
| 4059081 | Hulico LLC                                                          | 11/11/2020 | 4059081 | 20887112.9 |        |
| 4059113 | Metaboards Holdings Ltd                                             | 10/11/2020 | 4059113 | 20811040.3 |        |
|         | Oxford University Innovation Limited                                |            |         |            |        |
| 4059287 | Apple Inc.                                                          | 12/02/2020 | 4059287 | 20918861.4 |        |
| 4059317 | Pilkington Group Limited                                            | 13/11/2020 | 4059317 | 20811063.5 |        |
| 4059458 | NATIONAL UNIVERSITY CORPORATION SHIGA UNIVERSITY OF MEDICAL SCIENCE | 09/11/2020 | 4059458 | 20888185.4 |        |
| 4059614 | Grohe AG                                                            | 11/03/2022 | 4059614 | 22161583.4 | German |
| 4059876 | Sumitomo Heavy Industries Construction Cranes Co., Ltd.             | 28/02/2022 | 4059876 | 22159058.1 |        |
| 4059973 | Aditya Birla Chemicals (Thailand) Ltd. (Advanced Materials)         | 15/03/2022 | 4059973 | 22162264.0 |        |
| 4060046 | University of Virginia Patent Foundation                            | 11/03/2011 | 4060046 | 21214510.6 |        |
| 4060121 | Seaway 7 Engineering B.V.                                           | 17/03/2022 | 4060121 | 22162749.0 |        |
| 4060397 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                | 25/11/2020 | 4060397 | 20896242.3 |        |
| 4060571 | SAP SE                                                              | 03/03/2022 | 4060571 | 22159851.9 |        |
| 4061272 | Bard Access Systems, Inc.                                           | 25/11/2020 | 4061272 | 20893677.3 |        |
| 4061650 | Tesla, Inc.                                                         | 20/11/2020 | 4061650 | 20828175.8 |        |
| 4061746 | AUTOSTORE TECHNOLOGY AS                                             | 28/10/2020 | 4061746 | 20799686.9 |        |
| 4062122 | Raytheon Canada Ltd. - Elcan                                        | 10/09/2020 | 4062122 | 20889122.6 |        |
| 4062781 | Changzhou Patent Electronic Technology Co., Ltd                     | 10/08/2020 | 4062781 | 20889954.2 |        |
| 4063093 | Airbus Operations, S.L.U.                                           | 24/03/2021 | 4063093 | 21382240.6 |        |
| 4063268 | DENSO CORPORATION                                                   | 10/11/2020 | 4063268 | 20889709.0 |        |
| 4063517 | The Chinese University Of Hong Kong                                 | 20/07/2016 | 4063517 | 22162789.6 |        |
| 4063682 | Meritor Heavy Vehicle Braking Systems (UK) Limited                  | 22/03/2021 | 4063682 | 21164067.7 |        |
| 4064091 | FUJIFILM Business Innovation Corp.                                  | 01/09/2021 | 4064091 | 21194300.6 |        |
| 4064224 | Rakuten Group, Inc.                                                 | 21/03/2022 | 4064224 | 22163194.8 |        |
| 4064360 | Kunshan Go-Visionox Opto-Electronics Co., Ltd.                      | 21/04/2020 | 4064360 | 20890852.5 |        |
| 4065314 | Robert Bosch GmbH                                                   | 23/11/2020 | 4065314 | 20812002.2 | German |
| 4065637 | BASF SE                                                             | 25/11/2020 | 4065637 | 20810970.2 |        |

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| 4066042 | Telefonaktiebolaget LM Ericsson (publ)                                 | 26/11/2019 | 4066042 | 19954446.1 |        |
| 4066421 | Telecom Italia S.p.A.                                                  | 27/11/2020 | 4066421 | 20811383.7 |        |
| 4066463 | Reliaquest Holdings, LLC                                               | 25/11/2020 | 4066463 | 20892517.2 |        |
| 4066545 | Telefonaktiebolaget LM Ericsson (publ)                                 | 27/11/2019 | 4066545 | 19812957.9 |        |
| 4066559 | ZTE Corporation                                                        | 14/02/2020 | 4066559 | 20890196.7 |        |
| 4066580 | ZTE Corporation                                                        | 06/08/2020 | 4066580 | 20948049.0 |        |
| 4066898 | Nihon Nohyaku Co., Ltd.                                                | 27/11/2020 | 4066898 | 20891807.8 |        |
| 4066940 | Mitsui Kinzoku Company, Limited                                        | 27/11/2020 | 4066940 | 20893000.8 |        |
| 4066949 | Minebea Mitsumi Inc.                                                   | 27/11/2020 | 4066949 | 20893403.4 |        |
| 4067230 | The Boeing Company                                                     | 07/03/2022 | 4067230 | 22160429.1 |        |
| 4067350 | Unimatec Co., Ltd.                                                     | 09/11/2020 | 4067350 | 20891654.4 |        |
| 4068201 | Hitachi, Ltd.                                                          | 09/10/2020 | 4068201 | 20893600.5 |        |
| 4068255 | BOE Technology Group Co., Ltd.<br>Hefei Boe Joint Technology Co., Ltd. | 29/11/2019 | 4068255 | 19945449.7 |        |
| 4068461 | LG Energy Solution, Ltd.                                               | 24/06/2021 | 4068461 | 21828865.2 |        |
| 4068516 | Airbus Defence and Space, S.A.                                         | 27/11/2019 | 4068516 | 19832422.0 |        |
| 4068668 | Datang Mobile Communications Equipment Co., Ltd.                       | 11/11/2020 | 4068668 | 20891515.7 |        |
| 4069065 | InteraXon Inc.                                                         | 04/12/2020 | 4069065 | 20896161.5 |        |
| 4069066 | Medtronic, Inc.                                                        | 30/11/2020 | 4069066 | 20896241.5 |        |
| 4069541 | Audi AG                                                                | 09/11/2020 | 4069541 | 20804201.0 | German |
| 4070704 | Vorwerk & Co. Interholding GmbH                                        | 08/04/2021 | 4070704 | 21167390.0 | German |
| 4071347 | Perez Fernandez, Celso                                                 | 12/11/2020 | 4071347 | 20895437.0 |        |
| 4072101 | Nokia Technologies Oy                                                  | 06/04/2021 | 4072101 | 21167050.0 |        |
| 4072232 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                | 10/11/2020 | 4072232 | 20899654.6 |        |
| 4072250 | Panasonic Energy Co., Ltd.                                             | 13/11/2020 | 4072250 | 20896476.7 |        |
| 4073472 | THALES                                                                 | 08/12/2020 | 4073472 | 20817036.5 | French |
| 4073592 | Hewlett-Packard Development Company, L.P.                              | 21/10/2020 | 4073592 | 20898453.4 |        |
| 4074270 | Quantum Surgical                                                       | 31/03/2020 | 4074270 | 22170012.3 | French |
| 4074279 | Intuitive Surgical Operations, Inc.                                    | 17/03/2015 | 4074279 | 22176396.4 |        |
| 4074640 | Appana Industries LLC                                                  | 05/04/2022 | 4074640 | 22166654.8 |        |
| 4075410 | PACE CANADA AEROSPACE & IT INC.                                        | 12/04/2022 | 4075410 | 22167826.1 |        |
| 4075761 | ZTE Corporation                                                        | 28/03/2018 | 4075761 | 22157752.1 |        |
| 4076601 | Avanos Medical Sales, LLC                                              | 14/12/2020 | 4076601 | 20901272.3 |        |
| 4076890 | De' Longhi Appliances S.r.l. Con Unico Socio                           | 18/12/2020 | 4076890 | 20833975.4 |        |
| 4078381 | Microsoft Technology Licensing, LLC                                    | 13/11/2020 | 4078381 | 20821488.2 |        |
| 4079593 | Windhoff Bahn- und Anlagentechnik GmbH                                 | 25/04/2022 | 4079593 | 22169782.4 | German |
| 4082136 | Intel Corporation                                                      | 23/12/2019 | 4082136 | 19957818.8 |        |
| 4083780 | Vivo Mobile Communication Co., Ltd.                                    | 16/12/2020 | 4083780 | 20905799.1 |        |
| 4084150 | LG Chem, Ltd.                                                          | 17/08/2021 | 4084150 | 21920099.5 |        |
| 4084283 | PULS GmbH                                                              | 27/04/2021 | 4084283 | 21170584.3 |        |
| 4084994 | GM Cruise Holdings LLC                                                 | 22/11/2020 | 4084994 | 20825056.3 |        |
| 4085758 | LG Electronics Inc.                                                    | 21/06/2019 | 4085758 | 22175088.8 |        |
| 4086149 | Ergon International GmbH                                               | 29/04/2022 | 4086149 | 22170874.6 | German |
| 4086321 | SAFRAN<br>SAFRAN AIRCRAFT ENGINES                                      | 22/04/2022 | 4086321 | 22169573.7 | French |
| 4086907 | INTEL Corporation                                                      | 30/03/2022 | 4086907 | 22165655.6 |        |
| 4087373 | UAB Light Conversion                                                   | 03/05/2021 | 4087373 | 21171798.8 |        |
| 4088460 | QUALCOMM INCORPORATED                                                  | 08/01/2021 | 4088460 | 21703114.5 |        |
| 4089437 | Opsys Tech Ltd.                                                        | 05/04/2017 | 4089437 | 22178999.3 |        |
| 4089959 | BenQ Corporation                                                       | 10/05/2022 | 4089959 | 22172488.3 |        |
| 4090187 | Juul Labs, Inc.                                                        | 13/01/2021 | 4090187 | 21705706.6 |        |
| 4091359 | ZTE Corporation                                                        | 15/01/2020 | 4091359 | 20888690.3 |        |
| 4092508 | Beijing Xiaomi Mobile Software Co., Ltd.                               | 19/11/2021 | 4092508 | 21209238.1 |        |
| 4092515 | Varjo Technologies Oy                                                  | 05/02/2019 | 4092515 | 22184733.8 |        |
| 4093247 | Fasteners for Retail, Inc.                                             | 22/01/2021 | 4093247 | 21744669.9 |        |
| 4093317 | James L. Orrington, II D.D.S., P.C.                                    | 08/04/2021 | 4093317 | 21809800.2 |        |
| 4093336 | Zimmer, Inc.                                                           | 21/01/2021 | 4093336 | 21705776.9 |        |

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| 4095621 | Ricoh Company, Ltd.                                    | 26/11/2012 | 4095621 | 22178929.0 |        |
| 4095942 | LG Energy Solution, Ltd.                               | 13/07/2017 | 4095942 | 22186175.0 |        |
| 4095966 | Jiangsu Contemporary Ampere Technology Limited         | 12/04/2021 | 4095966 | 21926071.8 |        |
| 4096379 | OVH                                                    | 27/05/2021 | 4096379 | 21305705.2 |        |
| 4096456 | KT&G Corporation                                       | 20/04/2021 | 4096456 | 21809099.1 |        |
| 4096804 | Aalto University Foundation sr                         | 27/01/2021 | 4096804 | 21711606.0 |        |
| 4098499 | Aptiv Technologies AG                                  | 21/02/2022 | 4098499 | 22157813.1 |        |
| 4099735 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.    | 27/02/2021 | 4099735 | 21760116.0 |        |
| 4100010 | Case Western Reserve University                        | 08/02/2021 | 4100010 | 21750608.8 |        |
| 4103134 | EXOKINETICS, INC.                                      | 11/02/2021 | 4103134 | 21753294.4 |        |
| 4103299 | Sartorius Stedim Biotech GmbH                          | 04/02/2021 | 4103299 | 21704455.1 | German |
| 4103773 | Bakel S.P.A.                                           | 12/02/2021 | 4103773 | 21710571.7 |        |
| 4105885 | NTT, Inc.                                              | 14/02/2020 | 4105885 | 20919274.9 |        |
| 4106712 | ImerTech SAS                                           | 19/02/2021 | 4106712 | 21705974.0 |        |
| 4107003 | Lsinc Corporation                                      | 11/06/2020 | 4107003 | 20919955.3 |        |
| 4107350 | Magic Leap, Inc.                                       | 17/02/2021 | 4107350 | 21756594.4 |        |
| 4107512 | Cropsy Technologies Limited                            | 19/02/2021 | 4107512 | 21756571.2 |        |
| 4107659 | AVL List GmbH                                          | 19/02/2021 | 4107659 | 21719024.8 | German |
| 4107703 | Koninklijke Philips N.V.                               | 12/02/2021 | 4107703 | 21706202.5 |        |
| 4107713 | BlackBerry Limited                                     | 28/04/2021 | 4107713 | 21796007.9 |        |
| 4107975 | ZTE Corporation                                        | 24/03/2020 | 4107975 | 20890613.1 |        |
| 4107988 | ZTE Corporation                                        | 23/04/2021 | 4107988 | 21930623.0 |        |
| 4108457 | TOYOTO MC Corporation                                  | 16/02/2021 | 4108457 | 21757582.8 |        |
| 4109112 | Robert Bosch GmbH                                      | 08/04/2022 | 4109112 | 22167352.8 | German |
| 4109330 | Tencent Technology (Shenzhen) Company Limited          | 19/08/2021 | 4109330 | 21860263.9 |        |
| 4109472 | JOHN COCKERILL S.A.                                    | 23/06/2021 | 4109472 | 21181033.8 | French |
| 4110002 | QUALCOMM Incorporated                                  | 05/02/2019 | 4110002 | 22190922.9 |        |
| 4110184 | Terumo Cardiovascular Systems Corporation              | 16/02/2021 | 4110184 | 21759849.9 |        |
| 4110192 | Nitinotes Ltd.                                         | 23/02/2021 | 4110192 | 21760195.4 |        |
| 4110234 | Musc Foundation for Research Development               | 24/02/2021 | 4110234 | 21760809.0 |        |
| 4110319 | H. Lee Moffitt Cancer Center & Research Institute Inc. | 26/02/2021 | 4110319 | 21759767.3 |        |
| 4110328 | Stichting Amsterdam UMC Wageningen Universiteit        | 26/02/2021 | 4110328 | 21708001.9 |        |
| 4110893 | Unilever Global IP Limited                             | 25/02/2021 | 4110893 | 21706987.1 |        |
| 4111152 | Weatherford Technology Holdings, LLC                   | 16/02/2021 | 4111152 | 21713492.3 |        |
| 4111772 | ZTE Corporation                                        | 30/04/2020 | 4111772 | 20895374.5 |        |
| 4112478 | Airbus Operations GmbH                                 | 28/06/2021 | 4112478 | 21181961.0 |        |
| 4112508 | Tetra Laval Holdings & Finance S.A.                    | 30/05/2022 | 4112508 | 22176163.8 |        |
| 4113095 | Bridgestone Corporation                                | 22/02/2021 | 4113095 | 21761130.0 |        |
| 4113979 | Sony Semiconductor Solutions Corporation               | 19/02/2021 | 4113979 | 21761590.5 |        |
| 4115106 | Metso Metals Oy                                        | 04/03/2020 | 4115106 | 20923162.0 |        |
| 4115320 | ZKW Group GmbH                                         | 02/03/2021 | 4115320 | 21708014.2 | German |
| 4115851 | L&K Biomed Co., Ltd.                                   | 06/11/2020 | 4115851 | 20923562.1 |        |
| 4116143 | Delta Kogyo Co., Ltd.                                  | 23/06/2021 | 4116143 | 21836998.1 |        |
| 4116307 | Peking University                                      | 01/03/2021 | 4116307 | 21765262.7 |        |
| 4116816 | Samsung Display Co., Ltd.                              | 31/03/2022 | 4116816 | 22165993.1 |        |
| 4117202 | MITSUBISHI ELECTRIC CORPORATION                        | 09/07/2021 | 4117202 | 21305952.0 |        |
| 4117253 | Apple Inc.                                             | 05/07/2022 | 4117253 | 22183135.7 |        |
| 4117487 | D.G.N. S.R.L.                                          | 23/02/2021 | 4117487 | 21706593.7 |        |
| 4117739 | Log10 B.V.                                             | 12/03/2021 | 4117739 | 21712256.3 |        |
| 4117883 | Isokon, d.o.o., Slovenske Konjice                      | 12/03/2021 | 4117883 | 21730309.8 |        |
| 4117977 | Siemens Mobility GmbH                                  | 06/04/2021 | 4117977 | 21721401.4 | German |
| 4118707 | Nokia Technologies Oy                                  | 05/03/2021 | 4118707 | 21710285.4 |        |

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| 4118721 | Legrand France<br>Legrand SNC                                                                                                     | 12/03/2021 | 4118721 | 21711237.4 | French |
| 4118992 | adidas AG                                                                                                                         | 30/03/2015 | 4118992 | 22192904.5 |        |
| 4119278 | Amada Co., Ltd.                                                                                                                   | 08/03/2021 | 4119278 | 21767293.0 |        |
| 4119775 | PRATT & WHITNEY CANADA CORP.                                                                                                      | 15/07/2022 | 4119775 | 22185319.5 |        |
| 4119836 | Suzhou Opplé Lighting Co., Ltd.<br>Opplé Lighting Co., Ltd.                                                                       | 25/06/2021 | 4119836 | 21831773.3 |        |
| 4119858 | Puresci Environmental Technology Co., Ltd                                                                                         | 18/10/2021 | 4119858 | 21904614.1 |        |
| 4119867 | Fujitsu General Limited                                                                                                           | 01/03/2021 | 4119867 | 21767675.8 |        |
| 4120032 | VEGA Grieshaber KG                                                                                                                | 15/07/2021 | 4120032 | 21185775.0 | German |
| 4120411 | LG Energy Solution, Ltd.                                                                                                          | 13/08/2021 | 4120411 | 21911177.0 |        |
| 4120724 | Vivo Mobile Communication Co., Ltd.                                                                                               | 03/03/2021 | 4120724 | 21767246.8 |        |
| 4122250 | Sharp Kabushiki Kaisha                                                                                                            | 14/04/2021 | 4122250 | 21787922.0 |        |
| 4122505 | Korea Institute of Civil Engineering and<br>Building Technology                                                                   | 16/03/2021 | 4122505 | 21771653.9 |        |
| 4122640 | Senju Metal Industry Co., Ltd.                                                                                                    | 16/03/2021 | 4122640 | 21770578.9 |        |
| 4122912 | Lg Chem, Ltd.                                                                                                                     | 27/10/2021 | 4122912 | 21898371.6 |        |
| 4123178 | Carrier Japan Corporation                                                                                                         | 19/03/2020 | 4123178 | 20926267.4 |        |
| 4123289 | RION Co., Ltd.                                                                                                                    | 03/03/2021 | 4123289 | 21770643.1 |        |
| 4123971 | Nokia Solutions and Networks Oy                                                                                                   | 20/07/2021 | 4123971 | 21186817.9 |        |
| 4124072 | Panasonic Intellectual Property Corporation<br>of America                                                                         | 18/03/2021 | 4124072 | 21770658.9 |        |
| 4124123 | Apple Inc.                                                                                                                        | 19/07/2022 | 4124123 | 22185852.5 |        |
| 4125311 | King Slide Works Co., Ltd.<br>King Slide Technology Co., Ltd.                                                                     | 27/10/2021 | 4125311 | 21205021.5 |        |
| 4125604 | Hologic, Inc.                                                                                                                     | 23/03/2021 | 4125604 | 21719369.7 |        |
| 4125833 | Orpha Biotech S.r.l.                                                                                                              | 23/03/2021 | 4125833 | 21718958.8 |        |
| 4125985 | TECHNISCHE UNIVERSITÄT WIEN                                                                                                       | 24/03/2021 | 4125985 | 21712888.3 |        |
| 4126216 | Siemens Healthineers International AG<br>Varian Medical Systems Particle Therapy<br>GmbH & Co. KG<br>Varian Medical Systems, Inc. | 01/04/2021 | 4126216 | 21716194.2 |        |
| 4126254 | PH6 Ltd<br>Britten, Alan                                                                                                          | 20/04/2021 | 4126254 | 21726973.7 |        |
| 4126645 | Bayerische Motoren Werke<br>Aktiengesellschaft                                                                                    | 15/02/2021 | 4126645 | 21705505.2 | German |
| 4126729 | INVENTIO AG                                                                                                                       | 04/03/2021 | 4126729 | 21708257.7 | German |
| 4126832 | Global Blood Therapeutics, Inc.                                                                                                   | 26/03/2021 | 4126832 | 21719796.1 |        |
| 4128649 | British Telecommunications public limited<br>company                                                                              | 22/03/2021 | 4128649 | 21713403.0 |        |
| 4128693 | ORANGE                                                                                                                            | 05/03/2021 | 4128693 | 21714933.5 | French |
| 4128706 | Meep-Advanced Enterprise Communication<br>Ltd                                                                                     | 11/02/2021 | 4128706 | 21797311.4 |        |
| 4129812 | Goi.tec e.U.                                                                                                                      | 02/08/2021 | 4129812 | 21189199.9 | German |
| 4130214 | Idemitsu Kosan Co.,Ltd.                                                                                                           | 29/03/2021 | 4130214 | 21780231.3 |        |
| 4130496 | ALSTOM Holdings                                                                                                                   | 04/08/2022 | 4130496 | 22188820.9 | French |
| 4130665 | Sumitomo Precision Products Co., Ltd.                                                                                             | 23/03/2021 | 4130665 | 21776971.0 |        |
| 4130939 | Rockwell Collins, Inc.                                                                                                            | 04/08/2022 | 4130939 | 22188852.2 |        |
| 4130944 | BOE Technology Group Co., Ltd.<br>Chengdu BOE Optoelectronics Technology<br>Co., Ltd.                                             | 01/04/2020 | 4130944 | 20926362.3 |        |
| 4131014 | Cisco Technology, Inc.                                                                                                            | 20/10/2018 | 4131014 | 22197942.0 |        |
| 4131047 | Blue Prism Limited                                                                                                                | 05/08/2021 | 4131047 | 21189837.4 |        |
| 4131571 | LG Energy Solution, Ltd.                                                                                                          | 03/06/2021 | 4131571 | 21856039.9 |        |
| 4131672 | FURUKAWA ELECTRIC CO., LTD.<br>Furukawa Automotive Systems Inc.                                                                   | 16/02/2021 | 4131672 | 21779589.7 |        |
| 4132166 | Sharp Kabushiki Kaisha                                                                                                            | 31/03/2021 | 4132166 | 21782053.9 |        |
| 4133239 | Erm Electronic Systems Ltd.                                                                                                       | 05/04/2021 | 4133239 | 21784697.1 |        |
| 4133652 | Apple Inc.                                                                                                                        | 15/05/2020 | 4133652 | 20934941.4 |        |
| 4133927 | CLAAS Tractor S.A.S.                                                                                                              | 14/04/2022 | 4133927 | 22168345.1 | German |
| 4134308 | Goodrich Corporation                                                                                                              | 09/08/2022 | 4134308 | 22189459.5 |        |
| 4135108 | LG Energy Solution, Ltd.                                                                                                          | 17/09/2021 | 4135108 | 21872869.9 |        |

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| 4135448 | Datang Mobile Communications Equipment Co., Ltd. | 09/04/2021 | 4135448 | 21784810.0 |        |
| 4135461 | Samsung Electronics Co., Ltd.                    | 17/05/2021 | 4135461 | 21807645.3 |        |
| 4135467 | Samsung Electronics Co., Ltd.                    | 08/08/2022 | 4135467 | 22189254.0 |        |
| 4135909 | RPM Industries, LLC                              | 16/04/2021 | 4135909 | 21789456.7 |        |
| 4137198 | Avation Medical, Inc.                            | 07/03/2019 | 4137198 | 22195414.2 |        |
| 4137469 | Lg Chem, Ltd.                                    | 05/11/2021 | 4137469 | 21894978.2 |        |
| 4137641 | Liebherr-Werk Bischofshofen GmbH                 | 16/08/2022 | 4137641 | 22190502.9 | German |
| 4139255 | LPKF Laser & Electronics SE                      | 20/05/2021 | 4139255 | 21728508.9 | German |
| 4140490 | Anpoly Inc.                                      | 29/04/2021 | 4140490 | 21866938.0 |        |
| 4141069 | ENEOS Materials Corporation                      | 24/08/2022 | 4141069 | 22191881.6 |        |
| 4141515 | Goertek Optical Technology Co., Ltd.             | 07/11/2020 | 4141515 | 20938187.0 |        |
| 4141763 | Carrier Corporation                              | 30/08/2022 | 4141763 | 22192973.0 |        |
| 4142213 | Bull SAS                                         | 30/08/2021 | 4142213 | 21193879.0 |        |
| 4142542 | Elfa International AB                            | 29/04/2021 | 4142542 | 21795738.0 |        |
| 4142947 | Jupe, Mike                                       | 02/07/2021 | 4142947 | 21838652.2 |        |
| 4143346 | EG BIOMED CO., LTD.                              | 29/04/2021 | 4143346 | 21796694.4 |        |
| 4143408 | Clopay Corporation                               | 30/04/2021 | 4143408 | 21797225.6 |        |
| 4143508 | Trabus                                           | 02/04/2021 | 4143508 | 21797080.5 |        |
| 4143837 | McNeil AB                                        | 29/04/2021 | 4143837 | 21727044.6 |        |
| 4144270 | Dreame Innovation Technology (Suzhou) Co., Ltd.  | 28/08/2021 | 4144270 | 21860541.8 |        |
| 4145455 | Tata Consultancy Services Limited                | 26/07/2022 | 4145455 | 22186927.4 |        |
| 4145601 | LG Energy Solution, Ltd.                         | 28/09/2021 | 4145601 | 21873024.0 |        |
| 4147157 | HP (Chongqing) Co., Ltd                          | 06/05/2020 | 4147157 | 20934261.7 |        |
| 4147362 | QUALCOMM Incorporated                            | 25/03/2021 | 4147362 | 21719787.0 |        |
| 4148087 | Hanwha TotalEnergies Petrochemical Co., Ltd.     | 13/09/2022 | 4148087 | 22195340.9 |        |
| 4148233 | RTX Corporation                                  | 08/09/2022 | 4148233 | 22194701.3 |        |
| 4149050 | LG Energy Solution, Ltd.                         | 27/07/2021 | 4149050 | 21869529.4 |        |
| 4149556 | Translate Bio, Inc.                              | 13/05/2021 | 4149556 | 21733866.4 |        |
| 4150191 | Weatherford Technology Holdings, LLC             | 11/05/2021 | 4150191 | 21730014.4 |        |
| 4151331 | The Boeing Company                               | 22/08/2022 | 4151331 | 22191408.8 |        |
| 4152313 | AIRBUS OPERATIONS (S.A.S.)                       | 19/09/2022 | 4152313 | 22196392.9 | French |
| 4152607 | Qorvo US, Inc.                                   | 14/09/2022 | 4152607 | 22195695.6 |        |
| 4154350 | SAFT                                             | 20/05/2021 | 4154350 | 21726920.8 | French |
| 4154486 | Huawei Technologies Co., Ltd.                    | 16/11/2020 | 4154486 | 20808082.0 |        |
| 4154526 | ByteDance Inc.                                   | 08/06/2021 | 4154526 | 21822859.1 |        |
| 4154696 | Techtronic Cordless GP                           | 16/09/2022 | 4154696 | 22196106.3 |        |
| 4154818 | Siemens Healthineers AG                          | 16/08/2022 | 4154818 | 22190551.6 | German |
| 4155170 | VOLKSWAGEN AG                                    | 25/07/2022 | 4155170 | 22186616.3 | German |
| 4155198 | Goodrich Corporation                             | 24/09/2021 | 4155198 | 21461602.1 |        |
| 4155223 | Cabka Group GmbH                                 | 27/09/2021 | 4155223 | 21382863.5 |        |
| 4156076 | Robert Bosch GmbH                                | 24/09/2021 | 4156076 | 21198762.3 |        |
| 4156143 | Autonomous A2Z                                   | 22/11/2021 | 4156143 | 21209519.4 |        |
| 4156597 | INTEL Corporation                                | 22/08/2022 | 4156597 | 22191395.7 |        |
| 4156795 | Apple Inc.                                       | 12/09/2022 | 4156795 | 22195218.7 |        |
| 4158091 | Jensen Denmark A/S                               | 28/04/2021 | 4158091 | 21723170.3 |        |
| 4158186 | Enevate B.V.                                     | 28/05/2021 | 4158186 | 21729516.1 |        |
| 4159286 | DAIO PAPER CORPORATION                           | 14/05/2021 | 4159286 | 21814370.9 |        |
| 4160908 | Weidmüller Interface GmbH & Co. KG               | 15/09/2022 | 4160908 | 22195912.5 | German |
| 4161214 | E.G.O. Elektro-Gerätebau GmbH                    | 16/09/2022 | 4161214 | 22196071.9 | German |
| 4161276 | Ecolab USA, Inc.                                 | 03/06/2021 | 4161276 | 21742941.4 |        |
| 4161762 | SAFRAN AIRCRAFT ENGINES                          | 26/05/2021 | 4161762 | 21734403.5 | French |
| 4162142 | Weatherford Technology Holdings, LLC             | 05/03/2021 | 4162142 | 21715370.9 |        |
| 4162251 | TECHNISCHE UNIVERSITÄT WIEN                      | 08/06/2021 | 4162251 | 21732805.3 | German |
| 4162399 | Avery Dennison Retail Information Services LLC   | 02/06/2021 | 4162399 | 21735080.0 |        |
| 4162438 | Snap Inc.                                        | 08/06/2021 | 4162438 | 21820908.8 |        |
| 4162566 | Raytheon Company                                 | 05/05/2021 | 4162566 | 21729372.9 |        |
| 4162843 | Fama Sofas, S.L.U.                               | 17/02/2022 | 4162843 | 22382131.5 |        |
| 4163918 | Tata Consultancy Services Limited                | 25/05/2022 | 4163918 | 22175470.8 |        |

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| 4163919 | Tata Consultancy Services Limited                                                                                                     | 27/05/2022 | 4163919 | 22175738.8 |        |
| 4163946 | Wöhner Besitz GmbH                                                                                                                    | 04/10/2022 | 4163946 | 22199494.0 |        |
| 4164017 | LG Energy Solution, Ltd.                                                                                                              | 03/09/2021 | 4164017 | 21867055.2 |        |
| 4164465 | HOYA CORPORATION                                                                                                                      | 11/11/2021 | 4164465 | 21811491.6 |        |
| 4164490 | Siemens Healthcare Diagnostics, Inc.                                                                                                  | 09/06/2021 | 4164490 | 21821398.1 |        |
| 4165583 | Snap Inc.                                                                                                                             | 02/06/2021 | 4165583 | 21821378.3 |        |
| 4165979 | Carl Geringhoff GmbH & Co.<br>Kommanditgesellschaft                                                                                   | 12/10/2022 | 4165979 | 22201138.9 | German |
| 4165984 | LG Electronics, Inc.                                                                                                                  | 13/10/2022 | 4165984 | 22201334.4 |        |
| 4166271 | Sillectra GmbH                                                                                                                        | 22/03/2017 | 4166271 | 22196084.2 | German |
| 4166844 | Top Victory Investments Limited                                                                                                       | 13/10/2021 | 4166844 | 21202334.5 |        |
| 4166953 | Gree Electric Appliances, Inc. of Zhuhai                                                                                              | 10/09/2021 | 4166953 | 21893531.0 |        |
| 4167045 | Shenzhen Tencent Computer Systems<br>Company Limited<br>INSTITUTE OF SOFTWARE CHINESE<br>ACADEMY OF SCIENCES                          | 24/11/2021 | 4167045 | 21937197.8 |        |
| 4167628 | ZTE Corporation                                                                                                                       | 18/05/2021 | 4167628 | 21822846.8 |        |
| 4168263 | Rheinisch-Westfälische Technische<br>Hochschule (RWTH) Aachen                                                                         | 17/06/2021 | 4168263 | 21734107.2 | German |
| 4168401 | Anaxis Pharma Pty Ltd                                                                                                                 | 18/06/2021 | 4168401 | 21826129.5 |        |
| 4168929 | Microsoft Technology Licensing, LLC                                                                                                   | 13/05/2021 | 4168929 | 21731624.9 |        |
| 4168981 | Cleerly, Inc.                                                                                                                         | 17/06/2021 | 4168981 | 21826056.0 |        |
| 4169007 | VIASAT INC.                                                                                                                           | 24/11/2020 | 4169007 | 20838677.1 |        |
| 4169461 | Globus Medical, Inc.                                                                                                                  | 24/10/2022 | 4169461 | 22203297.1 |        |
| 4169575 | Sato Pharmaceutical Co., Ltd.                                                                                                         | 18/06/2021 | 4169575 | 21826846.4 |        |
| 4169594 | Phoenixdarts Co., Ltd.                                                                                                                | 31/05/2021 | 4169594 | 21828869.4 |        |
| 4169772 | VOLKSWAGEN AG                                                                                                                         | 19/10/2021 | 4169772 | 21203332.8 | German |
| 4170181 | Mitsubishi Heavy Industries, Ltd.                                                                                                     | 31/08/2021 | 4170181 | 21864327.8 |        |
| 4170219 | Unison Industries, LLC                                                                                                                | 09/08/2022 | 4170219 | 22189591.5 |        |
| 4170396 | Corning Research & Development<br>Corporation                                                                                         | 19/10/2022 | 4170396 | 22202558.7 |        |
| 4171044 | Samsung Electronics Co., Ltd.                                                                                                         | 24/08/2021 | 4171044 | 21872734.5 |        |
| 4172747 | Microsoft Technology Licensing, LLC                                                                                                   | 26/04/2021 | 4172747 | 21725912.6 |        |
| 4173019 | Siemens Aktiengesellschaft                                                                                                            | 27/07/2021 | 4173019 | 21749829.4 |        |
| 4174419 | CHONGQING HAIER REFRIGERATION<br>ELECTRIC APPLIANCE CO., LTD.<br>QINGDAO HAIER REFRIGERATOR<br>CO., LTD<br>HAIER SMART HOME CO., LTD. | 18/06/2021 | 4174419 | 21833480.3 |        |
| 4174892 | Beijing Green Century Technology Co., Ltd                                                                                             | 08/07/2022 | 4174892 | 22183887.3 |        |
| 4175175 | NXP B.V.                                                                                                                              | 10/10/2022 | 4175175 | 22200613.2 |        |
| 4175530 | Prodeon Medical Corporation                                                                                                           | 06/07/2021 | 4175530 | 21838443.6 |        |
| 4175603 | Siemens Healthcare Diagnostics, Inc.                                                                                                  | 29/06/2021 | 4175603 | 21837028.6 |        |
| 4176661 | ZTE Corporation                                                                                                                       | 06/08/2020 | 4176661 | 20948863.4 |        |
| 4176721 | LANXESS Deutschland GmbH                                                                                                              | 03/11/2021 | 4176721 | 21206207.9 | German |
| 4176758 | Shopping Basket S.L.U.                                                                                                                | 04/11/2022 | 4176758 | 22205541.0 |        |
| 4177040 | Covess<br>ARKEMA FRANCE                                                                                                               | 09/11/2021 | 4177040 | 21306566.7 | French |
| 4177444 | MTU Aero Engines AG                                                                                                                   | 17/10/2022 | 4177444 | 22201988.7 | German |
| 4177616 | Safran Electrical & Power                                                                                                             | 07/11/2022 | 4177616 | 22205928.9 | French |
| 4177828 | Tata Consultancy Services Limited                                                                                                     | 07/06/2022 | 4177828 | 22177547.1 |        |
| 4177955 | Changxin Memory Technologies, Inc.                                                                                                    | 19/11/2021 | 4177955 | 21949522.3 |        |
| 4178514 | 3M Innovative Properties Company                                                                                                      | 01/07/2021 | 4178514 | 21739796.7 |        |
| 4180303 | Rehrig Pacific Company                                                                                                                | 14/11/2022 | 4180303 | 22207334.8 |        |
| 4180358 | Kristian Rytter A/S                                                                                                                   | 14/11/2022 | 4180358 | 22207129.2 |        |
| 4180585 | Yanmar Holdings Co., Ltd.                                                                                                             | 01/11/2022 | 4180585 | 22204838.1 |        |
| 4181039 | Tata Consultancy Services Limited                                                                                                     | 16/11/2022 | 4181039 | 22207671.3 |        |
| 4181076 | Infineon Technologies AG                                                                                                              | 11/11/2021 | 4181076 | 21207802.6 |        |
| 4181153 | Canon Kabushiki Kaisha                                                                                                                | 07/11/2022 | 4181153 | 22205889.3 |        |
| 4181584 | Samsung Electronics Co., Ltd.                                                                                                         | 15/11/2022 | 4181584 | 22207407.2 |        |
| 4181649 | LG Display Co., Ltd.                                                                                                                  | 28/10/2022 | 4181649 | 22204519.7 |        |
| 4182424 | Kenvue Brands LLC                                                                                                                     | 01/07/2021 | 4182424 | 21739462.6 |        |

|         |                                                                |            |         |            |        |
|---------|----------------------------------------------------------------|------------|---------|------------|--------|
| 4182846 | Bundesdruckerei GmbH                                           | 16/07/2021 | 4182846 | 21746679.6 | German |
| 4183097 | Siemens Aktiengesellschaft                                     | 12/08/2021 | 4183097 | 21762428.7 | German |
| 4184146 | National Institute for Materials Science                       | 12/07/2021 | 4184146 | 21841598.2 |        |
| 4184195 | NXP B.V.                                                       | 18/11/2021 | 4184195 | 21209113.6 |        |
| 4184389 | Robert Bosch GmbH                                              | 18/11/2021 | 4184389 | 21209049.2 |        |
|         | Instytut Fizyki Polskiej Akademii Nauk                         |            |         |            |        |
| 4184494 | Samsung Display Co., Ltd.                                      | 17/11/2022 | 4184494 | 22208014.5 |        |
| 4184666 | LG Energy Solution, Ltd.                                       | 15/10/2021 | 4184666 | 21880583.6 |        |
| 4184883 | Robert Bosch GmbH                                              | 18/11/2021 | 4184883 | 21208988.2 | German |
| 4185027 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.           | 06/08/2020 | 4185027 | 20948781.8 |        |
| 4185082 | Canaan Creative Co., Ltd.                                      | 12/07/2021 | 4185082 | 21842505.6 |        |
| 4185684 | Henkel AG & Co. KGaA                                           | 25/06/2021 | 4185684 | 21739298.4 |        |
| 4186300 | QUALCOMM INCORPORATED                                          | 22/06/2021 | 4186300 | 21742663.4 |        |
| 4186411 | Altek Biotechnology Corporation                                | 28/11/2022 | 4186411 | 22209770.1 |        |
| 4187142 | H2 MOBILITY Deutschland GmbH & Co. KG                          | 25/11/2022 | 4187142 | 22209716.4 | German |
| 4187143 | Airbus Operations GmbH                                         | 30/11/2021 | 4187143 | 21315256.4 |        |
|         | AIRBUS OPERATIONS (S.A.S.)                                     |            |         |            |        |
|         | Airbus (S.A.S.)                                                |            |         |            |        |
| 4187398 | Samsung Electronics Co., Ltd.                                  | 28/06/2022 | 4187398 | 22181530.1 |        |
| 4187445 | Commissariat à l'Energie Atomique et aux Energies Alternatives | 23/11/2022 | 4187445 | 22209173.8 | French |
| 4187569 | Eppendorf SE                                                   | 25/11/2021 | 4187569 | 21210624.9 | German |
| 4187690 | Contemporary Amperex Technology (Hong Kong) Limited            | 30/09/2021 | 4187690 | 21953609.1 |        |
| 4187840 | Deutsche Telekom AG                                            | 30/11/2021 | 4187840 | 21211364.1 | German |
| 4188302 | The Procter & Gamble Company                                   | 22/07/2021 | 4188302 | 21755227.2 |        |
| 4189477 | ASML Netherlands B.V.                                          | 06/07/2021 | 4189477 | 21742338.3 |        |
| 4189887 | Telefonaktiebolaget LM ERICSSON (PUBL)                         | 29/07/2021 | 4189887 | 21758138.8 |        |
| 4191618 | Delta Electronics (Japan), Inc.                                | 03/09/2021 | 4191618 | 21866684.0 |        |
| 4192173 | LG Electronics Inc.                                            | 22/10/2021 | 4192173 | 21883347.3 |        |
| 4194742 | Hasco Vision Technology Co., Ltd.                              | 25/05/2021 | 4194742 | 21865572.8 |        |
| 4194945 | Panasonic Projector & Display Corporation                      | 07/07/2021 | 4194945 | 21853280.2 |        |
| 4195261 | NXP B.V.                                                       | 14/11/2022 | 4195261 | 22207302.5 |        |
| 4195551 | MEDIATEK INC.                                                  | 29/11/2022 | 4195551 | 22210191.7 |        |
| 4195564 | ZTE Corporation                                                | 07/07/2021 | 4195564 | 21853324.8 |        |
| 4195803 | Samsung Electronics Co., Ltd.                                  | 12/08/2021 | 4195803 | 21856255.1 |        |
| 4196358 | Audi AG                                                        | 01/07/2021 | 4196358 | 21739099.6 | German |
| 4196395 | Windham Packaging, LLC                                         | 26/03/2021 | 4196395 | 21858743.4 |        |
| 4196688 | Fidlock GmbH                                                   | 13/07/2021 | 4196688 | 21746392.6 | German |
| 4197430 | Medit Corp.                                                    | 11/08/2021 | 4197430 | 21856227.0 |        |
| 4197879 | CRSC Research & Design Institute Group Co., Ltd.               | 08/07/2021 | 4197879 | 21945605.0 |        |
| 4198222 | Zoomlion Heavy Industry Science and Technology Co., Ltd.       | 09/11/2020 | 4198222 | 20939474.1 |        |
| 4198279 | Yamabiko Corporation                                           | 16/12/2022 | 4198279 | 22214257.2 |        |
| 4198402 | BSH Hausgeräte GmbH                                            | 14/11/2022 | 4198402 | 22207114.4 | German |
| 4198644 | Rubattel et Weyermann S.A.                                     | 24/11/2022 | 4198644 | 22209494.8 | French |
| 4199917 | Oakwood Laboratories, LLC                                      | 17/08/2021 | 4199917 | 21858931.5 |        |
| 4200183 | Filtration Control Ltd                                         | 05/02/2021 | 4200183 | 21703898.3 |        |
|         | Bombardier Transportation GmbH                                 |            |         |            |        |
| 4200373 | Mylar Specialty Films U.S. Limited Partnership                 | 20/08/2021 | 4200373 | 21765686.7 |        |
| 4200854 | GDM Holding LLC                                                | 23/11/2021 | 4200854 | 21816053.9 |        |
| 4202296 | Richter lighting technologies GmbH                             | 22/12/2021 | 4202296 | 21216963.5 | German |
| 4202539 | InnoLux Corporation                                            | 07/12/2022 | 4202539 | 22211863.0 |        |
| 4202559 | CANON KABUSHIKI KAISHA                                         | 16/09/2021 | 4202559 | 22216720.7 |        |
| 4202989 | Intel Corporation                                              | 11/11/2022 | 4202989 | 22206842.1 |        |
| 4203777 | Newton, Mark                                                   | 24/11/2021 | 4203777 | 21904113.4 |        |
| 4205077 | Huawei Technologies Co. Ltd.                                   | 10/11/2020 | 4205077 | 20804512.0 |        |



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| 4205664 | FUJIFILM Corporation                                                   | 18/03/2021 | 4205664 | 21860832.1 |        |
| 4206443 | Garrett Transportation I Inc.                                          | 03/08/2022 | 4206443 | 22188595.7 |        |
| 4207005 | Alice & Bob                                                            | 31/12/2021 | 4207005 | 21306965.1 |        |
| 4208293 | Siemens Healthcare Diagnostics, Inc.                                   | 30/08/2021 | 4208293 | 21864944.0 |        |
| 4209031 | Cisco Technology, Inc.                                                 | 30/08/2021 | 4209031 | 21772936.7 |        |
| 4209674 | Ningbo Forward Fire Technology Co., Ltd.                               | 05/08/2021 | 4209674 | 21868322.5 |        |
| 4209995 | Contemporary Amperex Technology (Hong Kong) Limited                    | 23/11/2021 | 4209995 | 21957738.4 |        |
| 4210464 | Shaktiman Grimme Root Crop Solutions Private Limited                   | 11/08/2021 | 4210464 | 21866233.6 |        |
| 4211480 | Siemens Energy Global GmbH & Co. KG                                    | 06/11/2020 | 4211480 | 20815725.5 | German |
| 4211539 | Koninklijke Philips N.V.                                               | 01/09/2021 | 4211539 | 21766498.6 |        |
| 4211598 | AstraZeneca UK Limited                                                 | 11/09/2021 | 4211598 | 21772839.3 |        |
|         | Daiichi Sankyo Company, Limited                                        |            |         |            |        |
| 4212660 | Jiangsu Hengshen Co., Ltd                                              | 06/11/2020 | 4212660 | 20953069.0 |        |
| 4213055 | FUJIFILM Business Innovation Corp.                                     | 04/10/2022 | 4213055 | 22199562.4 |        |
| 4213622 | Volare Oy                                                              | 20/09/2021 | 4213622 | 21794184.8 |        |
| 4216407 | Zhejiang Sanhua Automotive Components Co., Ltd.                        | 14/09/2021 | 4216407 | 21868608.7 |        |
| 4216470 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                   | 15/09/2020 | 4216470 | 20953546.7 |        |
| 4216485 | Sony Semiconductor Solutions Corporation                               | 13/09/2021 | 4216485 | 21869342.2 |        |
| 4218036 | QBYSS Ltd.                                                             | 24/09/2021 | 4218036 | 21801163.3 |        |
| 4218076 | Schaeffler Technologies AG & Co. KG                                    | 24/09/2021 | 4218076 | 21786346.3 | German |
| 4218153 | QUALCOMM INCORPORATED                                                  | 18/08/2021 | 4218153 | 21769270.6 |        |
| 4219250 | VOLKSWAGEN AG                                                          | 27/01/2022 | 4219250 | 22153691.5 |        |
|         | Seat, S.A.                                                             |            |         |            |        |
| 4219510 | Kyungpook National University Industry-Academic Cooperation Foundation | 05/10/2021 | 4219510 | 21886596.2 |        |
| 4220060 | Bosal Flanders NV                                                      | 27/01/2022 | 4220060 | 22153551.1 |        |
| 4220318 | ABB SCHWEIZ AG                                                         | 31/01/2022 | 4220318 | 22154299.6 |        |
| 4221587 | Stryker Corporation                                                    | 28/09/2021 | 4221587 | 21876292.0 |        |
| 4221797 | ResMed Pty Ltd                                                         | 27/08/2021 | 4221797 | 21873718.7 |        |
| 4221799 | Université de Strasbourg                                               | 29/09/2021 | 4221799 | 21782999.3 | French |
|         | Hôpitaux Universitaires de Strasbourg (HUS)                            |            |         |            |        |
| 4223740 | Mesoestetic Pharma Group, S.L.                                         | 01/04/2021 | 4223740 | 21727914.0 |        |
| 4223943 | KOBELCO CONSTRUCTION MACHINERY CO., LTD.                               | 26/10/2021 | 4223943 | 21891638.5 |        |
| 4225127 | Université Paris Cité                                                  | 07/10/2021 | 4225127 | 21798571.2 |        |
|         | CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)                    |            |         |            |        |
| 4225128 | CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)                    | 07/10/2021 | 4225128 | 21798945.8 |        |
|         | Université Paris Cité                                                  |            |         |            |        |
| 4225166 | Acumed LLC                                                             | 07/10/2021 | 4225166 | 21878508.7 |        |
| 4225506 | Techtronic Cordless GP                                                 | 09/10/2020 | 4225506 | 20956485.5 |        |
| 4225818 | Rohm and Haas Company                                                  | 24/09/2021 | 4225818 | 21805688.5 |        |
| 4226106 | ELECTROLUX APPLIANCES                                                  | 09/10/2020 | 4226106 | 20789945.1 |        |
|         | AKTIEBOLAG                                                             |            |         |            |        |
| 4227008 | ALTEMIRA Co., Ltd.                                                     | 14/09/2021 | 4227008 | 21879807.2 |        |
| 4227041 | AECC Shanghai Commercial Aircraft Engine Manufacturing Co., Ltd.       | 09/07/2021 | 4227041 | 21876889.3 |        |
|         | Aecc Commercial Aircraft Engine Co., Ltd.                              |            |         |            |        |
| 4227235 | BIC Violex Single Member S.A.                                          | 11/02/2022 | 4227235 | 22156305.9 |        |
| 4227896 | Siemens Healthineers AG                                                | 11/02/2022 | 4227896 | 22156310.9 |        |
| 4228431 | JBT Marel Corporation                                                  | 13/10/2021 | 4228431 | 21805733.9 |        |
| 4228562 | Spring Loaded Technology Incorporated                                  | 12/11/2021 | 4228562 | 21890440.7 |        |
| 4229121 | Timeplast, Inc                                                         | 02/02/2021 | 4229121 | 21880698.2 |        |
| 4229249 | Framery Oy                                                             | 15/10/2021 | 4229249 | 21806303.0 |        |
| 4229894 | Telefonaktiebolaget LM Ericsson (publ)                                 | 14/10/2020 | 4229894 | 20796940.3 |        |
| 4230436 | BRIDGESTONE CORPORATION                                                | 15/10/2021 | 4230436 | 21880210.6 |        |

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| 4230806 | Hitachi Construction Machinery Co., Ltd.                                                                  | 15/11/2021 | 4230806 | 21894592.1 |        |
| 4231143 | BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.                                                            | 04/11/2021 | 4231143 | 21888634.9 |        |
| 4231738 | Wonkwang University Center for Industry - Academy Cooperation<br>HYUNDAI MOTOR COMPANY<br>Kia Corporation | 19/11/2021 | 4231738 | 21895162.2 |        |
| 4233117 | Wattii, Inc.                                                                                              | 27/07/2021 | 4233117 | 21907359.0 |        |
| 4236127 | Huawei Technologies Co. Ltd.                                                                              | 27/11/2020 | 4236127 | 20962946.8 |        |
| 4236329 | LG Electronics Inc.                                                                                       | 22/10/2020 | 4236329 | 20958771.6 |        |
| 4236747 | Aktiebolaget Electrolux                                                                                   | 02/11/2020 | 4236747 | 20796468.5 |        |
| 4236932 | Visus Therapeutics, Inc.                                                                                  | 02/11/2021 | 4236932 | 21887770.2 |        |
| 4237054 | Fisher & Paykel Healthcare Limited                                                                        | 29/10/2021 | 4237054 | 21885489.1 |        |
| 4237638 | De Haan, Ian Robert                                                                                       | 22/10/2021 | 4237638 | 21799224.7 |        |
| 4238691 | POSCO Co., Ltd                                                                                            | 28/10/2021 | 4238691 | 21886857.8 |        |
| 4239472 | Huawei Technologies Co. Ltd.                                                                              | 26/11/2021 | 4239472 | 21897148.9 |        |
| 4239518 | Huawei Technologies Co. Ltd.                                                                              | 29/11/2021 | 4239518 | 21897191.9 |        |
| 4239613 | NISSAN MOTOR CO., LTD.<br>Renault s.a.s                                                                   | 02/11/2020 | 4239613 | 20959661.8 |        |
| 4239793 | Zhejiang Geely Holding Group Co., Ltd.<br>Ningbo Geely Automobile Research & Development Co. Ltd.         | 29/10/2020 | 4239793 | 20959099.1 |        |
| 4240244 | Palodex Group Oy                                                                                          | 02/11/2021 | 4240244 | 21815369.0 |        |
| 4240697 | Umicore<br>Umicore Korea Ltd.                                                                             | 03/11/2021 | 4240697 | 21805491.4 |        |
| 4240946 | Cummins Emission Solutions Inc.                                                                           | 05/11/2021 | 4240946 | 21890127.0 |        |
| 4240954 | Safran Nacelles                                                                                           | 03/11/2021 | 4240954 | 21814830.2 | French |
| 4240959 | SAFRAN AIRCRAFT ENGINES                                                                                   | 05/11/2021 | 4240959 | 21815243.7 | French |
| 4240995 | Aliaxis Research & Technology                                                                             | 08/11/2021 | 4240995 | 21815113.2 |        |
| 4241226 | Swiss Reinsurance Company Ltd.                                                                            | 05/11/2020 | 4241226 | 20804187.1 |        |
| 4241365 | IN Motion US, LLC                                                                                         | 05/11/2021 | 4241365 | 21890168.4 |        |
| 4241904 | Digital Metal AB                                                                                          | 07/03/2022 | 4241904 | 22160564.5 |        |
| 4243339 | NXP B.V.                                                                                                  | 09/03/2022 | 4243339 | 22161132.0 |        |
| 4243471 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                                                      | 14/12/2020 | 4243471 | 20965347.6 |        |
| 4243744 | Coloplast A/S                                                                                             | 12/11/2021 | 4243744 | 21811256.3 |        |
| 4243845 | Synbiotics AB                                                                                             | 12/11/2021 | 4243845 | 21811156.5 |        |
| 4244096 | Sandvik Mining and Construction Oy                                                                        | 16/11/2020 | 4244096 | 20808083.8 |        |
| 4244432 | DDC Engineering B.V.                                                                                      | 11/11/2021 | 4244432 | 21805982.2 |        |
| 4244446 | Akzenta Paneele + Profile GmbH                                                                            | 11/11/2021 | 4244446 | 21810348.9 | German |
| 4244905 | Denselight Semiconductors Pte Ltd                                                                         | 12/11/2021 | 4244905 | 21891346.5 |        |
| 4245339 | BMC Medical Co., Ltd.                                                                                     | 12/11/2021 | 4245339 | 21913512.6 |        |
| 4245928 | Düker GmbH                                                                                                | 15/03/2022 | 4245928 | 22162203.8 | German |
| 4246196 | Huawei Technologies Co. Ltd.                                                                              | 09/11/2021 | 4246196 | 21896777.6 |        |
| 4246313 | Huawei Cloud Computing Technologies Co., Ltd.                                                             | 25/11/2021 | 4246313 | 21905486.3 |        |
| 4247157 | Rentokil Initial 1927 PLC                                                                                 | 12/11/2021 | 4247157 | 21815604.0 |        |
| 4247655 | Versus-Omega BV                                                                                           | 18/11/2021 | 4247655 | 21830490.5 |        |
| 4248122 | Baker Hughes Holdings LLC                                                                                 | 15/11/2021 | 4248122 | 21895852.8 |        |
| 4248140 | BSH Hausgeräte GmbH                                                                                       | 17/11/2021 | 4248140 | 21819045.2 | German |
| 4248141 | BSH Hausgeräte GmbH                                                                                       | 17/11/2021 | 4248141 | 21819047.8 | German |
| 4248259 | Saint-Gobain Sekurit France                                                                               | 12/11/2021 | 4248259 | 21805987.1 | German |
| 4248311 | Microsoft Technology Licensing, LLC                                                                       | 03/09/2021 | 4248311 | 21787104.5 |        |
| 4248326 | Telefonaktiebolaget LM Ericsson (publ)                                                                    | 20/11/2020 | 4248326 | 20962608.4 |        |
| 4248411 | QUALCOMM INCORPORATED                                                                                     | 18/11/2020 | 4248411 | 20961874.3 |        |
| 4249757 | Nexans                                                                                                    | 25/03/2022 | 4249757 | 22305371.1 |        |
| 4251034 | Koninklijke Philips N.V.                                                                                  | 22/11/2021 | 4251034 | 21806296.6 |        |
| 4251050 | CardioInsight Technologies, Inc.                                                                          | 19/11/2021 | 4251050 | 21827302.7 |        |
| 4251233 | Coloplast A/S                                                                                             | 24/11/2021 | 4251233 | 21823182.7 |        |
| 4251323 | CureVac Manufacturing GmbH<br>Tesla Automation GmbH                                                       | 26/11/2021 | 4251323 | 21811399.1 |        |
| 4251470 | Safran Seats                                                                                              | 10/11/2021 | 4251470 | 21807102.5 | French |

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| 4251483 | AUMOVIO Germany GmbH                                                                 | 21/10/2021 | 4251483 | 21805367.6 | German |
| 4251712 | IFP Energies nouvelles                                                               | 18/11/2021 | 4251712 | 21810373.7 | French |
| 4251804 | DYWIDAG-Systems International GmbH                                                   | 19/11/2021 | 4251804 | 21811071.6 |        |
| 4251869 | IFP Energies nouvelles                                                               | 15/11/2021 | 4251869 | 21805990.5 | French |
| 4252254 | ORAIGO S.R.L.                                                                        | 29/11/2021 | 4252254 | 21834884.5 |        |
| 4252264 | Maschinenfabrik Reinhausen GmbH                                                      | 08/11/2021 | 4252264 | 21807072.0 | German |
| 4253286 | Frans Bakker Beheer B.V.                                                             | 28/03/2022 | 4253286 | 22164838.9 |        |
| 4253375 | Artivila (ShenZhen) Innovation Center, Ltd.                                          | 24/11/2021 | 4253375 | 21897000.2 |        |
| 4254137 | Huawei Technologies Co. Ltd.                                                         | 23/11/2021 | 4254137 | 21908988.5 |        |
| 4254906 | Shenzhen Yinwang Intelligent Technologies Co., Ltd.                                  | 23/11/2021 | 4254906 | 21913612.4 |        |
| 4255954 | Sika Technology AG                                                                   | 30/11/2021 | 4255954 | 21816478.8 | German |
| 4256142 | Geberit International AG                                                             | 26/11/2021 | 4256142 | 21820550.8 | German |
| 4256185 | IFP Energies nouvelles                                                               | 23/11/2021 | 4256185 | 21811089.8 | French |
| 4256386 | Sicoya GmbH                                                                          | 19/11/2021 | 4256386 | 21815191.8 |        |
| 4256959 | Korea University Research and Business Foundation                                    | 12/03/2021 | 4256959 | 21900742.4 |        |
|         | Seoul National University R & DB Foundation                                          |            |         |            |        |
| 4258636 | FUJIFILM Corporation                                                                 | 30/11/2021 | 4258636 | 21900611.1 |        |
| 4259428 | Dow Global Technologies LLC                                                          | 08/12/2020 | 4259428 | 20833715.4 |        |
| 4260036 | Endress+Hauser SE+Co. KG                                                             | 26/11/2021 | 4260036 | 21823217.1 | German |
| 4260281 | Raytheon Company                                                                     | 30/11/2021 | 4260281 | 21836281.2 |        |
| 4260307 | AUMOVIO Autonomous Mobility Germany GmbH                                             | 24/11/2021 | 4260307 | 21827594.9 | German |
| 4262233 | Harman Becker Automotive Systems GmbH                                                | 14/04/2022 | 4262233 | 22168373.3 |        |
| 4262254 | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.                                 | 08/11/2021 | 4262254 | 21902303.3 |        |
| 4262686 | L'OREAL                                                                              | 10/12/2021 | 4262686 | 21840197.4 |        |
| 4263103 | Amsel-Advanced Materials and Surfaces for Environment and Life GmbH                  | 16/12/2021 | 4263103 | 21867868.8 | German |
| 4264213 | Endress+Hauser Wetzler GmbH+CO. KG                                                   | 26/11/2021 | 4264213 | 21823219.7 | German |
| 4264469 | Microsoft Technology Licensing, LLC                                                  | 11/11/2021 | 4264469 | 21824135.4 |        |
| 4265496 | Astemo, Ltd.                                                                         | 10/11/2021 | 4265496 | 21906204.9 |        |
| 4266260 | Axis AB                                                                              | 20/04/2022 | 4266260 | 22169005.0 |        |
| 4266286 | Astemo, Ltd.                                                                         | 10/11/2021 | 4266286 | 21906206.4 |        |
| 4266352 | TOKYO OHKA KOGYO CO., LTD.                                                           | 27/12/2021 | 4266352 | 21919743.1 |        |
| 4266445 | Beijing WeLion New Energy Technology Co., Ltd                                        | 31/08/2021 | 4266445 | 21905127.3 |        |
| 4266930 | KT&G Corporation                                                                     | 14/12/2021 | 4266930 | 21911365.1 |        |
| 4269013 | KABUSHIKI KAISHA KOBE SEIKO SHO (KOBELITEEL, LTD.)                                   | 07/01/2022 | 4269013 | 22745555.7 |        |
| 4270459 | Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences | 27/12/2021 | 4270459 | 21914255.1 |        |
| 4275118 | Texas Instruments Incorporated                                                       | 07/01/2022 | 4275118 | 22737143.2 |        |
| 4275856 | Hilti Aktiengesellschaft                                                             | 10/05/2022 | 4275856 | 22172528.6 | German |
| 4276017 | University of Ioannina- Special Account For Research Funds                           | 10/05/2022 | 4276017 | 22386026.3 |        |
|         | Airbus SAS                                                                           |            |         |            |        |
|         | Airbus Operations GmbH                                                               |            |         |            |        |
| 4276547 | Omega SA                                                                             | 10/05/2022 | 4276547 | 22172493.3 | French |
| 4277815 | Robert Bosch GmbH                                                                    | 02/11/2021 | 4277815 | 21802691.2 | German |
| 4278105 | Schaeffler Technologies AG & Co. KG                                                  | 12/01/2022 | 4278105 | 22700530.3 | German |
| 4279998 | Universo S.A.                                                                        | 16/05/2022 | 4279998 | 22173607.7 | French |
| 4280295 | Contemporary Amperex Technology Co., Limited                                         | 23/11/2021 | 4280295 | 21965026.4 |        |
|         | Jiangsu Contemporary Amperex Technology Limited                                      |            |         |            |        |
| 4280538 | Huawei Technologies Co. Ltd.                                                         | 25/11/2021 | 4280538 | 21925468.7 |        |
| 4283462 | Accenture Global Solutions Limited                                                   | 30/08/2022 | 4283462 | 22192709.8 |        |

|         |                                                                                                                   |            |         |            |        |
|---------|-------------------------------------------------------------------------------------------------------------------|------------|---------|------------|--------|
| 4285020 | Holmatro B.V.                                                                                                     | 25/01/2022 | 4285020 | 22701732.4 |        |
| 4285193 | Garrett Transportation I Inc.                                                                                     | 01/02/2021 | 4285193 | 21708464.9 |        |
|         | Bayerische Motoren Werke<br>Aktiengesellschaft                                                                    |            |         |            |        |
| 4285795 | Zhuhai Kelitong Electronic Co., Ltd                                                                               | 05/07/2022 | 4285795 | 22182933.6 |        |
| 4286702 | THK Co., Ltd.                                                                                                     | 05/11/2021 | 4286702 | 21923056.2 |        |
| 4287346 | Dukosi Limited                                                                                                    | 29/05/2022 | 4287346 | 22175970.7 |        |
| 4287755 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                                                           | 14/05/2021 | 4287755 | 21941404.2 |        |
| 4290134 | MIURA CO., LTD.                                                                                                   | 05/11/2021 | 4290134 | 21924768.1 |        |
| 4290306 | TOYOTA JIDOSHA KABUSHIKI<br>KAISHA                                                                                | 10/06/2022 | 4290306 | 22178424.2 |        |
| 4292229 | QUALCOMM INCORPORATED                                                                                             | 11/02/2021 | 4292229 | 21711465.1 |        |
| 4293236 | Hitachi Construction Machinery Co., Ltd.                                                                          | 18/03/2021 | 4293236 | 21931579.3 |        |
| 4296503 | Waves 2 Power ApS c/o Christian Nereus<br>Grant                                                                   | 24/06/2022 | 4296503 | 22180984.1 |        |
| 4296788 | Montres Breguet S.A.                                                                                              | 21/06/2022 | 4296788 | 22180159.0 | French |
| 4297182 | VEGA Grieshaber KG                                                                                                | 20/06/2022 | 4297182 | 22179987.7 | German |
| 4297355 | NXP B.V.                                                                                                          | 24/06/2022 | 4297355 | 22305919.7 |        |
| 4299451 | Airbus Defence and Space, S.A.                                                                                    | 25/02/2021 | 4299451 | 21718630.3 |        |
| 4299704 | The Procter & Gamble Company                                                                                      | 27/06/2022 | 4299704 | 22181240.7 |        |
| 4300897 | NXP B.V.                                                                                                          | 29/06/2022 | 4300897 | 22182026.9 |        |
| 4302008 | PNR Italia S.r.l.                                                                                                 | 05/03/2021 | 4302008 | 21719246.7 |        |
| 4303368 | Alfa Laval Corporate AB                                                                                           | 07/07/2022 | 4303368 | 22183600.0 |        |
| 4306398 | Liu, Wei-Ting                                                                                                     | 25/11/2022 | 4306398 | 22209527.5 |        |
| 4307353 | Hangzhou Sizone Electronic Technology<br>Inc.                                                                     | 20/10/2021 | 4307353 | 21929850.2 |        |
| 4308266 | Volvo Truck Corporation                                                                                           | 18/03/2021 | 4308266 | 21714826.1 |        |
| 4309110 | Babu, Killakathu Ramanathan                                                                                       | 31/05/2021 | 4309110 | 21931386.3 |        |
| 4311047 | Heraeus Precious Metals GmbH & Co. KG                                                                             | 22/07/2022 | 4311047 | 22186378.0 | German |
| 4316350 | Siemens Healthineers AG                                                                                           | 05/08/2022 | 4316350 | 22189027.0 |        |
| 4316873 | BRIDGESTONE CORPORATION                                                                                           | 05/11/2021 | 4316873 | 21935127.7 |        |
| 4318388 | NTT, Inc.                                                                                                         | 26/05/2021 | 4318388 | 21942970.1 |        |
| 4318709 | LG ENERGY SOLUTION, LTD.                                                                                          | 11/01/2023 | 4318709 | 23781132.8 |        |
| 4319220 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                                                           | 11/05/2021 | 4319220 | 21941271.5 |        |
| 4319571 | Altria Client Services LLC                                                                                        | 24/11/2021 | 4319571 | 21827510.5 |        |
| 4321051 | SamBound New Material Technology<br>packaging Limited                                                             | 11/10/2022 | 4321051 | 22200881.5 |        |
| 4321192 | Findair Sp. z o. o.                                                                                               | 11/08/2022 | 4321192 | 22461592.2 |        |
| 4321821 | GD Midea Heating & Ventilating<br>Equipment Co., Ltd.<br>HEFEI MIDEA HEATING &<br>VENTILATING EQUIPMENT CO., LTD. | 30/11/2021 | 4321821 | 21943875.1 |        |
| 4322179 | United Kingdom Atomic Energy Authority                                                                            | 08/08/2022 | 4322179 | 22382769.2 |        |
| 4322549 | Alps Alpine Europe GmbH                                                                                           | 12/08/2022 | 4322549 | 22190243.0 |        |
| 4324659 | Takeuchi, Osamu                                                                                                   | 07/09/2021 | 4324659 | 21937023.6 |        |
| 4328102 | KNORR-BREMSE Systeme für<br>Nutzfahrzeuge GmbH                                                                    | 22/08/2022 | 4328102 | 22191386.6 |        |
| 4331258 | Telefonaktiebolaget LM Ericsson (publ)                                                                            | 29/04/2021 | 4331258 | 21939496.2 |        |
| 4332594 | CALB Co., Ltd.                                                                                                    | 09/11/2022 | 4332594 | 22206320.8 |        |
| 4336542 | BOE Technology Group Co., Ltd.<br>Chengdu BOE Optoelectronics Technology<br>Co., Ltd.                             | 30/12/2021 | 4336542 | 21969611.9 |        |
| 4337439 | DUE M S.R.L.                                                                                                      | 11/05/2021 | 4337439 | 21726607.1 |        |
| 4338709 | Aesculap AG                                                                                                       | 16/09/2022 | 4338709 | 22196026.3 |        |
| 4344150 | NXP B.V.                                                                                                          | 21/09/2022 | 4344150 | 22196969.4 |        |
| 4345156 | Henkel AG & Co. KGaA                                                                                              | 30/09/2022 | 4345156 | 22198941.1 | German |
| 4345222 | Stichting IMEC Nederland                                                                                          | 29/09/2022 | 4345222 | 22198589.8 |        |
| 4346170 | GUANGDONG OPPO MOBILE<br>TELECOMMUNICATIONS CORP., LTD.                                                           | 04/08/2021 | 4346170 | 21952261.2 |        |
| 4348370 | Nokia Technologies Oy                                                                                             | 01/06/2021 | 4348370 | 21944361.1 |        |

|         |                                                          |            |         |            |        |
|---------|----------------------------------------------------------|------------|---------|------------|--------|
| 4349677 | NISSAN MOTOR CO., LTD.                                   | 28/05/2021 | 4349677 | 21942151.8 |        |
| 4349711 | Goodrich Lighting Systems GmbH & Co. KG                  | 05/10/2022 | 4349711 | 22199914.7 |        |
| 4353658 | TK Elevator Innovation and Operations GmbH               | 10/10/2022 | 4353658 | 22200558.9 | German |
| 4354614 | Contemporary Amperex Technology (Hong Kong) Limited      | 30/11/2021 | 4354614 | 21965885.3 |        |
| 4356999 | Livoo AB                                                 | 20/10/2022 | 4356999 | 22202807.8 |        |
| 4357848 | Aptiv Technologies AG                                    | 21/10/2022 | 4357848 | 22202979.5 |        |
| 4360845 | BRIDGESTONE CORPORATION                                  | 24/11/2021 | 4360845 | 21947220.6 |        |
| 4360847 | BRIDGESTONE CORPORATION                                  | 24/11/2021 | 4360847 | 21947222.2 |        |
| 4364645 | Volvo Car Corporation                                    | 03/11/2022 | 4364645 | 22205349.8 |        |
| 4365123 | Jiangsu Goldwind Science & Technology Co., Ltd.          | 03/11/2021 | 4365123 | 21953980.6 |        |
| 4367564 | Siemens Aktiengesellschaft                               | 31/08/2021 | 4367564 | 21955436.7 |        |
| 4369179 | Celonis SE                                               | 08/11/2022 | 4369179 | 22206238.2 |        |
| 4371827 | Scania CV AB                                             | 21/11/2022 | 4371827 | 22208467.5 |        |
| 4372588 | Metal Gear                                               | 18/11/2022 | 4372588 | 22306706.7 |        |
| 4373028 | NXP B.V.                                                 | 15/11/2022 | 4373028 | 22207597.0 |        |
| 4374043 | FMC Technologies Do Brasil LTDA                          | 21/07/2021 | 4374043 | 21950376.0 |        |
| 4375076 | Canon Production Printing Holding B.V.                   | 22/11/2022 | 4375076 | 22208801.5 |        |
| 4375160 | Koch, Uwe                                                | 28/11/2022 | 4375160 | 22209829.5 | German |
| 4375441 | Framery Oy                                               | 25/11/2022 | 4375441 | 22209635.6 |        |
| 4375706 | NXP B.V.                                                 | 28/11/2022 | 4375706 | 22209882.4 |        |
| 4376025 | GE Vernova Technology GmbH                               | 28/11/2022 | 4376025 | 22209997.0 |        |
| 4376364 | NXP B.V.                                                 | 22/11/2022 | 4376364 | 22208925.2 |        |
| 4377889 | Shanghai United Imaging Healthcare Co., Ltd.             | 30/12/2021 | 4377889 | 21955849.1 |        |
| 4378128 | Bosch Car Multimedia Portugal, S.A.                      | 21/12/2021 | 4378128 | 21848029.1 |        |
| 4378148 | Telefonaktiebolaget LM Ericsson (publ)                   | 27/07/2021 | 4378148 | 21749363.4 |        |
| 4378804 | VOLVO TRUCK CORPORATION                                  | 01/12/2022 | 4378804 | 22210784.9 |        |
| 4382778 | VOLVO TRUCK CORPORATION                                  | 05/12/2022 | 4382778 | 22211422.5 |        |
| 4390598 | embotech AG                                              | 23/12/2022 | 4390598 | 22216503.7 |        |
| 4391022 | Graphenea Semiconductor S.L.U.                           | 23/12/2022 | 4391022 | 22383280.9 |        |
| 4396767 | Peking University                                        | 30/09/2021 | 4396767 | 21958989.2 |        |
| 4402397 | Aerojet Rocketdyne, Inc.                                 | 15/09/2021 | 4402397 | 21789952.5 |        |
| 4412569 | Essity Hygiene and Health Aktiebolag                     | 08/10/2021 | 4412569 | 21794480.0 |        |
| 4419013 | Chaffrignon, Bernard-Marie                               | 18/10/2021 | 4419013 | 21810717.5 |        |
| 4420863 | Fuji Corporation                                         | 19/10/2021 | 4420863 | 21961351.0 |        |
| 4425790 | mitsubishi electric corporation                          | 26/10/2021 | 4425790 | 21962342.8 |        |
| 4427684 | Digital Anatomics, S.L.                                  | 03/11/2021 | 4427684 | 21834819.1 |        |
| 4427777 | Altria Client Services LLC                               | 07/01/2020 | 4427777 | 24185145.0 |        |
| 4428377 | Zoomlion Heavy Industry Science and Technology Co., Ltd. | 04/11/2021 | 4428377 | 21962861.7 |        |
| 4463438 | ADAMA MAKHTESHIM LTD.                                    | 12/01/2023 | 4463438 | 23701615.9 |        |
| 4463465 | NAVIGO PROTEINS GMBH                                     | 12/01/2023 | 4463465 | 23700764.6 |        |
| 4466455 | SINE DELTA AS                                            | 13/01/2023 | 4466455 | 23705697.3 |        |
| 4585325 | Nemak, S.A.B. de C.V.                                    | 11/01/2024 | 4585325 | 24151288.8 | German |

## Withdrawn – Section 33(1)

S20250016 Automated Object Classification System. DEXMONT ALEJANDRO  
PENA CARRILLO

## Refused - Section 31(1)

S20230460 Int. Cl. (2025.01) **G06F 21/00; G06N 20/00**. A METHOD OF, AND A SYSTEM FOR, OPTIMIZING COPYRIGHT PROTECTION WITHIN A GENERATIVE ARTIFICIAL INTELLIGENCE (AI) SYSTEM. IAIAI TECHNOLOGIES LIMITED

S20230462 Int. Cl. (2025.01) **G10H 1/00**. A METHOD OF, AND A SYSTEM FOR, GENERATING AN AUDIO OUTPUT FILE VIA A COMPUTER SYSTEM. IAIAI TECHNOLOGIES LIMITED

S20240539 Int. Cl. (2025.01) **G05B 19/00; G05G 1/00; H01H 13/00**. Full-motion electronic handwheel. LI MIN

S20240600 Int. Cl. (2025.01) **A01B 43/00**. FILM LIFTING SHOVEL FOR FURROW FILM MULCHING AND RIDGE PLANTING, AND MULCH FILM RECYCLING MACHINE. INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES; BAYANNUR INSTITUTE OF AGRICULTURE AND ANIMAL HUSBANDRY; ORDOS AGRICULTURE AND ANIMAL HUSBANDRY ECOLOGY AND RESOURCE PROTECTION CENTER

## Supplementary Protection Certificates Granted

The name and address of the grantee follows the number allocated to the application for grant of a certificate; this number applies also to the granted certificate. The date in brackets following the name and address is the date of grant of the certificate. The number of the basic Patent and the title of the invention are followed by the name of the product for which the certificate is granted. Market authorisation references in respect of the product concerned are also shown, followed by the date of expiry of the certificate.

**2021044** ARRAY BIOPHARMA, INC., 3200 Walnut Street, Boulder CO 80301, United States of America. ASTRAZENECA AB, 151 85 Södertälje, Sweden  
(06/01/2026)  
Patent No: 1968948; NOVEL HYDROGEN SULFATE SALT  
Product: Selumetinib (including any hydrogen sulfate salts or solvates thereof)  
Market Authorisation: Ireland EU/1/21/1552, 19/06/2021  
European Union EU/1/21/1552, 19/06/2021  
Certificate Expires on: 11/12/2031

## Application for Extension of the Duration of a Supplementary Protection Certificate

The name and address of the applicant follow the number allocated to the Supplementary Protection Certificate (SPC). The date in brackets following the name and address is the date of receipt of the application for an extension of the duration of the SPC. The Patent number is that under which the product in respect of which an extension of the duration of the SPC is sought is, allegedly, protected. Market authorisation references in respect of the product concerned are also shown, followed by the original date of expiry of the certificate.

**2016035** BIOGEN MA INC., 250 Binney Street, Cambridge MA 02142, United States of America  
(05/01/2026)  
Patent No: 1476181; POLYALKYLENE POLYMER COMPOUNDS AND USES THEREOF  
Product: peginterferon beta-1a or a biosimilar product pursuant to Article 10(4) of Directive 2001/83/EC, as protected by the basic patent  
Market Authorisation: Ireland EU/1/14/934, 18/07/2014  
  
Original SPC Expiry Date: 16/01/2028

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## Application for Extension of the Duration of a Supplementary Protection Certificate Withdrawn

The name and address of the applicant follow the number allocated to the Supplementary Protection Certificate (SPC). The date in brackets following the name and address is the date of receipt of the application for an extension of the duration of the SPC. The Patent number is that under which the product in respect of which an extension of the duration of the SPC is sought is, allegedly, protected. Market authorisation references in respect of the product concerned are also shown, followed by the original date of expiry of the certificate.

**2014068** ROYALTY PHARMA COLLECTION TRUST, Rodney Square North 1100 North Market Street, Wilmington Delaware 19890, United States of America  
22/04/2020  
Patent No: 1084705; Method for lowering blood glucose levels in mammals  
Product: Saxagliptin  
Market Authorisation: Ireland EU/1/09/545/001-010, 01/10/2009  
  
Original SPC Expiry Date:

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**2014069** ROYALTY PHARMA COLLECTION TRUST, Rodney Square North 1100  
North Market Street, Wilmington Delaware 19890, United States of America  
22/04/2020  
Patent No: 1084705; Method for lowering blood glucose levels in mammals  
Product: Linagliptin  
Market Authorisation: Ireland EU/1/11/707/001-011, 24/08/2011  
  
Original SPC Expiry Date:

**2014070** ROYALTY PHARMA COLLECTION TRUST, Rodney Square North 1100  
North Market Street, Wilmington DE 19890, United States of America  
22/04/2020  
Patent No: 1084705; Method for lowering blood glucose levels in mammals  
Product: Alogliptin  
Market Authorisation: Ireland EU/1/13/844/001-027, 19/09/2013  
  
Original SPC Expiry Date:

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## Patents Expired

|         |                                                                                                                                                                                 |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 84526   | Int. Cl. (2025.01) <b>G01N 21/00; G01N 21/55</b> . A detection system.<br>FARRAN TECHNOLOGY LIMITED                                                                             |
| 85268   | Int. Cl. (2025.01) <b>H02J 7/00; H02J 7/10</b> . Method for verifying smart<br>battery failures by measuring input charging voltage and associated<br>systems. DELL PRODUCTS LP |
| 85663   | Int. Cl. (2025.01) <b>C08G 8/00; C08G 61/00</b> . A phenolic foam.<br>KINGSPAN HOLDINGS (IRL) LIMITED                                                                           |
| 1640521 | Procedure for mounting insulation panels. Brillux GmbH & Co. KG                                                                                                                 |
| 1670111 | Bundle of tubes. gabo Systemtechnik GmbH                                                                                                                                        |
| 1674033 | Cement restrictor with integrated pressure transducer. DePuy Products,<br>Inc.                                                                                                  |
| 1674120 | Apparatus for collecting a blood component and performing a<br>photopheresis treatment. THERAKOS DEVELOPMENT LIMITED                                                            |
| 1674369 | Railway track lubrication system. Rail Partner Schweiz AG; Van Gilst,<br>Cornelis Leonard Willem                                                                                |
| 1676525 | Medical device communications network. DePuy Products, Inc.                                                                                                                     |

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- 1676536 Systems for removing plaque from a blood vessel. Nitinol Development Corporation
- 1676594 Catheter. TERUMO KABUSHIKI KAISHA
- 1679791 Systems, methods and devices for differential active biasing of a multi-stage amplifier. ViaSat, Inc.
- 1683593 METHOD OF MANUFACTURING A POROUS STRUCTURE BY LASER. Howmedica Osteonics Corp.; University of Liverpool
- 1696517 Connector assembly for devices or cables to an electric installation. nkt cables GmbH
- 1761245 NATURAL EXTRACT CONTAINING XANTHOHUMOL, AND METHOD FOR THE PRODUCTION THEREOF AND PRODUCTS PRODUCED THEREFROM. Antonio Arcaini
- 1761651 MRNA RATIOS IN URINARY SEDIMENTS AND/OR URINE AS A PROGNOSTIC AND/OR THERANOSTIC MARKER FOR PROSTATE CANCER. Stichting Katholieke Universiteit The University Medical Centre Nijmegen
- 1792653 Apparatus and method for spectrophotometric analysis. FOSS Analytical A/S
- 1795479 End plug for a roll of material, roll of material and retention mechanism in a dispenser. Essity Hygiene and Health Aktiebolag
- 1800541 Soft wheat flour with high bran content, process for its production and bakery products containing it. Barilla G. e R. Fratelli S.p.A.
- 1803352 Apparatus for handling toasted bread slices sent to packaging. Barilla G. e R. Fratelli S.p.A.
- 1803542 Contact lens production. CooperVision International Limited
- 1803820 A process for the preparation of vitamin K2. Gnosis S.p.A.
- 1817319 INOSITOL-PHOSPHATE DERIVATIVES AND METHOD OF DETECTING INOSITOL-1-PHOSPHATE. CIS BIO INTERNATIONAL
- 1817383 DARK, FLAT ELEMENT HAVING LOW HEAT CONDUCTIVITY, REDUCED DENSITY AND LOW SOLAR ABSORPTION. Construction Research & Technology GmbH
- 1819227 PHARMACEUTICAL FORMULATION OF DECITABINE. Astex Pharmaceuticals, Inc.
- 1819230 RED CELL-DERIVED MICROPARTICLES AS HEMOSTATIC AGENTS FOR THE CONTROL OF HEMORRHAGE AND FOR TREATMENT OF BLEEDING DISORDERS. University of Miami
- 1819353 COMPOSITION FOR PROTEASOME INHIBITION. Onyx Therapeutics, Inc.

|         |                                                                                                                                     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1819362 | TOPICAL NEPAFENAC FORMULATIONS. ALCON, INC.                                                                                         |
| 1819380 | AUTOMATIC INJECTION AND RETRACTION SYRINGE. West<br>Pharmaceutical Services, Inc.                                                   |
| 1819390 | INTRODUCER APPARATUS. Cook Medical Technologies LLC                                                                                 |
| 1819586 | DEVICE FOR AN ANCHOR WITH A RETRIEVAL PROVISION.<br>STEVLOS B.V.                                                                    |
| 1819683 | POTASSIUM SALT OF AN HIV INTEGRASE INHIBITOR. MERCK<br>SHARP & DOHME LLC                                                            |
| 1819700 | POTASSIUM SALT OF AN HIV INTEGRASE INHIBITOR. MERCK<br>SHARP & DOHME LLC; MSD Italia S.r.l.                                         |
| 1819887 | INSULATING CONCRETE BLOCK. Buildblock Building Systems,<br>L.L.C.                                                                   |
| 1824419 | MODULAR IMPLANT SYSTEM. DePuy Products, Inc.                                                                                        |
| 1824425 | MODULAR DIAPHYSEAL AND COLLAR IMPLANT. DePuy<br>Products, Inc.                                                                      |
| 1824470 | METHOD FOR EXTENDING LIFESPAN AND DELAYING THE<br>ONSET OF AGE-RELATED DISEASE. Cash, Alan B.                                       |
| 1824548 | MULTIFILAR CABLE CATHETER. Cook Medical Technologies<br>LLC                                                                         |
| 1824856 | 2,4 (4,6) PYRIMIDINE DERIVATIVES. Janssen Pharmaceutica NV                                                                          |
| 1824961 | MELIBIOSE OPERON EXPRESSION SYSTEM. Lonza Ltd;<br>MorphoSys AG                                                                      |
| 1825080 | TEXTILE PANEL AND RELATIVE PRODUCTION METHOD.<br>Tensoforma Trading S.r.l.                                                          |
| 1825194 | METHOD AND APPARATUS FOR CONDITIONING LIQUID<br>HYDROCARBON FUELS. LPP Combustion, LLC                                              |
| 1827279 | EFFICIENT CONTROLLED CRYOGENIC FLUID DELIVERY<br>INTO A BALLOON CATHETER AND OTHER TREATMENT<br>DEVICES. Cryovascular Systems, Inc. |
| 1827283 | A STERILIZABLE PACKAGE WITH A HIGH BARRIER TO<br>OXYGEN. KNPAK Acquisition Limited                                                  |
| 1827307 | VARIABLE CURVATURE STENT. Med Institute, Inc.                                                                                       |
| 1827461 | CLADRIBINE REGIMEN FOR TREATING MULTIPLE<br>SCLEROSIS. Merck Serono SA                                                              |
| 1827480 | COMPOSITIONS AND METHODS FOR PROMOTING WOUND<br>HEALING AND TISSUE REGENERATION. MUSC Foundation For<br>Research Development        |

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- 1827501 STABILIZED POLYMERIC THIOL REAGENTS. Nektar  
Therapeutics
- 1827527 INFLATABLE OCCLUSION DEVICES, METHODS, AND  
SYSTEMS. Cook Incorporated
- 1827619 IMPROVEMENTS IN BALLS FOR PLAYING GAMES. Grays of  
Cambridge (International) Limited
- 1827992 PACKAGE COMPRISING A SLEEVE AND INSERT AND A  
BLANK FOR FORMING SAID PACKAGE. STORA ENSO AB
- 1828007 FLEXIBLE CARRIER. Illinois Tool Works Inc.
- 1828201 MACROCYCLIC QUINAZOLINE DERIVATIVES AND THEIR  
USE AS MTKI. Janssen Pharmaceutica NV
- 1828224 COMPOSITIONS CONTAINING, METHODS INVOLVING, AND  
USES OF NON-NATURAL AMINO ACIDS AND POLYPEPTIDES.  
Ambrx, Inc.
- 1828225 PURIFIED RHIGF-I/RHIGFBP-3 COMPLEXES AND THEIR  
METHOD OF MANUFACTURE. Insmmed, Inc.
- 1828411 METHODS FOR SIMPLIFYING MICROBIAL NUCLEIC ACIDS  
BY CHEMICAL MODIFICATION OF CYTOSINES. Human Genetic  
Signatures PTY Ltd
- 1828772 DETECTION AND QUANTITATION OF CYCLODEXTRINS.  
Biogen MA Inc.
- 1829139 ORGANIC/INORGANIC COMPOSITE MICROPOROUS  
MEMBRANE AND ELECTROCHEMICAL DEVICE PREPARED  
THEREBY. LG ENERGY SOLUTION, LTD.; Toray Industries, Inc.
- 1829291 ENERGY EFFICIENT WIRELESS SENSOR NETWORK AND A  
METHOD FOR ARRANGING COMMUNICATIONS IN A WIRELESS  
SENSOR NETWORK. Wirepas Oy
- 1829354 TRANSACTION PROCESSING PLATFORM FOR FACILITATING  
ELECTRONIC DISTRIBUTION OF PLURAL PREPAID SERVICES.  
Ewi Holdings, Inc.
- 1829868 PROCESS FOR PRODUCTION OF (4,5-DIHYDROISOXAZOL-3-  
YL)THIO- CARBOXAMIDINE SALTS. IHARA CHEMICAL  
INDUSTRY CO., LTD.
- 1830636 PUMPED FOAM CONTAINING ALCOHOL. Deb IP Limited
- 1830749 IMPLANTABLE PENILE PROSTHESIS PUMP. Boston Scientific  
Scimed, Inc.
- 1830752 MODULAR IMPLANT SYSTEM WITH DIAPHYSEAL IMPLANT  
AND ADAPTER. DePuy Products, Inc.
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- 1830838 COMPOSITIONS AND METHODS FOR TREATING NEOPLASTIC DISEASES. Dana-Farber Cancer Institute, Inc.; Triphase Research and Development l Corp.
- 1830843 INDOLIDONE DERIVATIVES FOR THE TREATMENT OR PREVENTION OF FIBROTIC DISEASES. Boehringer Ingelheim International GmbH
- 1830850 QUINOLINE DERIVATIVES FOR THE TREATMENT OF LATENT TUBERCULOSIS. Janssen Pharmaceutica NV
- 1830881 COMBINING THERAPIES TARGETING MULTIPLE TOLL-LIKE RECEPTORS AND USE THEREOF. Novimmune SA
- 1830885 INJECTABLE VETERINARY COMPOSITION COMPRISING FLORFENICOL. Intervet International BV
- 1830898 POLYMER COMPOSITION FOR AN INTRAOCULAR LENS. Physiol
- 1830915 CATHETER ASSEMBLY WITH PLAQUE CUTTING BALLOON. Cook Medical Technologies LLC
- 1830924 PREVENTION OF THROMBUS FORMATION AND/OR STABILIZATION. CSL Behring GmbH
- 1831149 NOVEL LIGANDS THAT MODULATE RAR RECEPTORS AND USE THEREOF IN HUMAN MEDICINE AND IN COSMETICS. GALDERMA RESEARCH & DEVELOPMENT
- 1831223 Method for producing L-Biopterin. Shiratori Pharmaceutical Co., Ltd.; Daiichi Sankyo Company, Limited
- 1831258 MONOCLONAL ANTIBODIES AGAINST NKG2A. Innate Pharma S.A.; Universita di Genova
- 1831351 PRODUCTION FROM BLOOD OF CELLS OF NEURAL LINEAGE. Kwalata Trading Limited
- 1831923 METHOD FOR TRIMMING A STRUCTURE OBTAINED BY THE ASSEMBLY OF TWO PLATES. Commissariat à l'Énergie Atomique et aux Énergies Alternatives; Soitec
- 1832093 TESTING APPARATUS USED IN A TESTING SYSTEM FOR CHECKING TRANSMISSION PROCESSES IN A MOBILE RADIO COMMUNICATION NETWORK. SIGOS LLC
- 1833384 INVERTING OCCLUSION DEVICES AND SYSTEMS. Cook Medical Technologies LLC
- 1833552 ELECTRODES FOR APPLYING AN ELECTRIC FIELD IN-VIVO OVER AN EXTENDED PERIOD OF TIME. Novocure GmbH
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| 1833962 | REGULATING STEM CELLS. Kwalata Trading Limited                                                                                    |
| 1833992 | PCV2 IMMUNOGENIC COMPOSITIONS AND METHODS OF<br>PRODUCING SUCH COMPOSITIONS. Boehringer Ingelheim Animal<br>Health USA Inc.       |
| 1834099 | CLAMP HEAD. EV IP LP                                                                                                              |
| 1834167 | PRESSURE REGULATED CONTINUOUSLY VARIABLE<br>VOLUME CONTAINER FOR FLUID DELIVERY. XY, LLC                                          |
| 1835022 | CELL CULTURE METHOD AND UTILIZATION OF THE SAME.<br>CHUGAI SEIYAKU KABUSHIKI KAISHA                                               |
| 1835938 | POLYMER-VON WILLEBRAND FACTOR-CONJUGATES. Takeda<br>Pharmaceutical Company Limited                                                |
| 1835948 | AN IMPLANTABLE BIOMATERIAL AND A METHOD OF<br>PRODUCING SAME. Admedus Regen Pty Ltd.                                              |
| 1836169 | COMPOSITIONS AND METHODS OF TREATING CELL<br>PROLIFERATION DISORDERS. ATNX SPV, LLC                                               |
| 1836201 | PYRROLIDINE INHIBITORS OF IAP. Genentech, Inc.                                                                                    |
| 1836480 | METHOD AND DEVICE FOR DETERMINING THE SMOKE<br>POINT OF HYDROCARBONS. TOTAL RAFFINAGE FRANCE                                      |
| 1838262 | LINSEED EYE COMPRESSES. Laboratoires Théa                                                                                         |
| 1838677 | CRYSTALLINE FORMS OF (R)-8-CHLORO-1-METHYL- 2,3,4,5-<br>TETRAHYDRO-1H-3-BENZAZEPINE HYDROCHLORIDE. Arena<br>Pharmaceuticals, Inc. |
| 1838716 | OLANZAPINE PAMOATE DIHYDRATE. Cheplapharm Schweiz<br>GmbH                                                                         |
| 1838873 | METHOD FOR CHROMOSOME PROFILING. Vallabhaneni,<br>Ramesh                                                                          |
| 1838887 | MAGNESIUM ALLOYS FOR HYDROGEN STORAGE. Hydrexia<br>Pty Limited                                                                    |
| 1839081 | SLIDE MISLOAD DETECTION SYSTEM. CYTYC<br>CORPORATION                                                                              |
| 1839120 | ANTI-IL-12 ANTIBODY BASED VECTORS, HOST CELLS, AND<br>METHODS OF PRODUCTION AND USES. Janssen Biotech, Inc.                       |
| 1839379 | MANUAL TOOL FOR STRIPPING ELECTRIC CABLES AND<br>TOOL SET FOR STRIPPING SAID CABLES. Derancourt S.A.S.                            |
| 1841335 | LIQUID PRODUCT PRESSURE AND TEMPERATURE<br>TREATMENT METHOD AND DEVICE. Millisecond Technologies<br>Corp.                         |
| 1843746 | SOMATOSTATIN ANALOGUE FORMULATIONS. CAMURUS AB                                                                                    |

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| 1845214 | Procedure for mounting insulation panels. Brillux GmbH & Co. KG                                                            |
| 1845865 | SOFT TISSUE DEFECT REPAIR DEVICE. W. L. GORE & ASSOCIATES, INC.                                                            |
| 1845866 | VASO-OCCLUSIVE DEVICE HAVING PIVOTABLE COUPLING. Stryker Corporation; Stryker European Operations Limited                  |
| 1851344 | ANHYDROUS LACTOSE AGGLOMERATES AND THE PREPARATION THEREOF. Campina Nederland Holding B.V.                                 |
| 1851630 | SYSTEMS AND METHODS FOR RESTORING DATA. EMC IP Holding Company LLC                                                         |
| 1851636 | SYSTEMS AND METHODS FOR DYNAMIC DATA BACKUP. EMC CORPORATION                                                               |
| 1853921 | DETECTION OF A THERAPEUTIC ANTIBODY IN AN EXPERIMENTAL ANIMAL. F.HOFFMANN-LA ROCHE AG                                      |
| 1858396 | APPARATUS FOR PERFORMING NEEDLE GUIDED INTERVENTIONS. Boston Scientific Scimed, Inc.                                       |
| 1866845 | DATA CARRIER WITH A CHIP AND A PLURALITY OF SENSORS. NXP B.V.; Bundesdruckerei GmbH                                        |
| 1869488 | ANTENNAS FOR OBJECT IDENTIFIERS IN LOCATION SYSTEMS. Consortium P, Inc.                                                    |
| 1872965 | SECURITY PAPER. FABRICA NACIONAL DE MONEDA Y TIMBRE - REAL CASA DE LA MONEDA                                               |
| 1877117 | NEEDLE-LESS INJECTOR. Pharmajet, Incorporated                                                                              |
| 1891962 | Glutathione based delivery system. INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE                                                |
| 1965666 | SHELF-STABLE BEVERAGE COMPOSITION. PepsiCo, Inc.                                                                           |
| 1971052 | AN APPARATUS AND METHOD FOR SELF-ADAPTIVE DISPERSION COMPENSATING. ZTE Corporation                                         |
| 2161054 | Electrodes for applying an electric field in-vivo over an extended period of time. Novocure GmbH                           |
| 2198712 | Herbicidal compositions comprising prosulfocarb. Syngenta Participations AG                                                |
| 2206495 | Topical bioadhesive formulations. Camurus AB                                                                               |
| 2213652 | Stilbene derivatives and their use for binding and imaging amyloid plaques. The Trustees of The University of Pennsylvania |
| 2260835 | Composition for proteasome inhibition. Onyx Therapeutics, Inc.                                                             |
| 2261236 | Composition for proteasome inhibition. Onyx Therapeutics, Inc.                                                             |

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| 2292733 | Production from blood of cells of neural lineage. Kwalata Trading Limited                                                                      |
| 2322550 | Compositions comprising anti-IGF-1R Antibodies and Methods for obtaining said Antibodies. Amgen, Inc                                           |
| 2327698 | Process for preparing (R)-8-chloro-1-methyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride hemihydrate. Arena Pharmaceuticals, Inc.         |
| 2327761 | Regulating stem cells. Kwalata Trading Limited                                                                                                 |
| 2345451 | Electrodes for applying an electric field in-vivo over an extended period of time. Novocure GmbH                                               |
| 2364747 | Electrodes for applying an electric field in-vivo over an extended period of time. Novocure GmbH                                               |
| 2364748 | Electrodes for applying an electric field in-vivo over an extended period of time. Novocure GmbH                                               |
| 2377546 | Compositions and methods for promoting wound healing and tissue regeneration. Musc Foundation For Research Development                         |
| 2399893 | COMPOSITIONS CONTAINING, METHODS INVOLVING, AND USES OF NON-NATURAL AMINO ACIDS AND POLYPEPTIDES. Ambrx, Inc.                                  |
| 2491801 | Shelf-stable beverage composition. PepsiCo, Inc.                                                                                               |
| 2514828 | Process for preparing purified ansamitocins. ImmunoGen, Inc.                                                                                   |
| 2527159 | Security strip and security paper. FÁBRICA NACIONAL DE MONEDA Y TIMBRE                                                                         |
| 2528141 | Organic/inorganic composite microporous membrane and electrochemical device prepared thereby. LG ENERGY SOLUTION, LTD.; Toray Industries, Inc. |
| 2878297 | Medicaments for the treatment or prevention of fibrotic diseases. Boehringer Ingelheim International GmbH                                      |
| 2923674 | Filament-wound implantable devices. W.L. Gore & Associates, Inc.                                                                               |
| 3061467 | WOUND DRESSING WITH A BACTERIAL ADSORBING COMPOSITION. Abigo Medical Ab                                                                        |
| 3175827 | MULTIFILAR CABLE CATHETER. Cook Medical Technologies LLC                                                                                       |
| 3203638 | RADIO SYSTEM WITH REDUNDANCY. Leonardo S.p.A.                                                                                                  |
| 3332789 | CLADRIBINE REGIMEN FOR TREATING MULTIPLE SCLEROSIS. Merck Serono SA                                                                            |
| 3511047 | APPARATUS FOR PERFORMING NEEDLE GUIDED INTERVENTIONS. Boston Scientific Scimed, Inc.                                                           |

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| 3605342 | ONE STEP ADDRESS TRANSLATION OF GRAPHICS<br>ADDRESSES IN VIRTUALIZATION. Intel Corporation              |
| 3643309 | NINTEDANIB FOR USE IN THE TREATMENT OF SYSTEMIC<br>SCLERODERMA. Boehringer Ingelheim International GmbH |
| 4070800 | CLADRIBINE REGIMEN FOR TREATING MULTIPLE<br>SCLEROSIS. Merck Serono S.A.                                |

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**Designs Registered Under The Industrial Designs Act, 2001**

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| <b>23748</b> | 10.02 | Martin Iglody, 69 The Meadows, Tir Cluain, Midleton P25X886, Ireland.<br>Address for service is c/o Martin Iglody<br>69 The Meadows, Tir Cluain, Midleton P25X886, Ireland. |
|--------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date of Registration: 11 November 2025.

The Nuada watch is a sophisticated timepiece that incorporates a retrograde minutes display, a jumping hour and day sub-dial complication, and a deep navy blue colour main dial. The dial is complemented by a silver minute plate and a silver day sub-dial. The hands feature elegant blue and silver tones. Primarily designed as a men's watch, the Nuada also boasts balanced proportions and a versatile design, making it an ideal unisex timepiece. It will be equipped with a suede leather strap in the blue navy colour.



**23749**

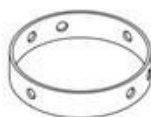
20.03

Devine Manufacturing Limited T/A Propel, Propel, Bluebell Industrial Estate, Bluebell Avenue D12FX38, Ireland.

Address for service is c/o Devine Manufacturing Limited T/A Propel Propel, Bluebell Industrial Estate, Bluebell Avenue D12FX38, Ireland.

Date of Registration: 25 June 2025.

The Bollardiser, transform your storefront with style and flexibility. The Bollardiser is a sleek, durable, 3 or 4 sided aluminium sleeve designed to slide effortlessly over existing bollards. It transforms plain bollards into eye-catching branding opportunities. With interchangeable panels on all sides you can showcase promotions, seasons, new products as often as you like. Durable and weather resistant.



**Iris um Oifig Maoine Intleachtúla na hÉireann**  
**Journal of the Intellectual Property Office of Ireland**  
**Cuid II**  
**Trádmharcanna**

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**No. 2560****Wednesday, 28 January, 2026**

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**NOTE:** The office does not guarantee the accuracy of its publications nor undertake any responsibility for errors or omissions or their consequences.

*In this Part of the Journal, unless the context otherwise requires, a reference to the 1963 Act means the Trade Marks Act, 1963, a reference to the 1963 Rules means the Trade Marks Rules, 1963, a reference to the 1996 Act means the Trade Marks Act, 1996 and a reference to the 1996 Rules means the Trade Marks Rules, 1996.*

**Official Notice**

**Patent Rules 1992 – Rule 77, – Office Closure**

**The Intellectual Property Office of Ireland (IPOI) will be closed for the transaction of  
business on Monday 2nd February 2026**

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## Application for Registration of marks published under Section 43(1) of the 1996 Act following acceptance

Notice is hereby given that Applications for the Registration of the undermentioned trade marks have been accepted.

Any person who desires to oppose the registration of these trade marks may within three months from the date of this Journal give notice to the Controller, in accordance with the provisions of Rule 18.

It should be noted that under the provisions of Rule 63(2) no extension of the opposition period is allowed for lodging opposition under Rule 18.

It is desirable before lodging formal opposition that a communication should be addressed to the Applicant affording him an opportunity to withdraw his application for registration. In this way cost of opposition proceedings may be avoided.



**273729** 02 August 2025

Class 9. Podcasts; Media content.

Brendan McCallion and Kieran French, Claggan, Culdaff, Inishowen F93Y297, Ireland. Address for service is c/o Brendan McCallion and Kieran French, Claggan, Culdaff, Inishowen F93Y297, Ireland.



**273730** 20 August 2025

Class 30. Sugar confectionery, including liquorice, toffees, sweets and jellies, chewing gum and bubble gum, mints.

CADBURY UK LIMITED, Bournville Place, Bournville Lane, Bournville, Birmingham B30 2HP, United Kingdom. Address for service is c/o MACLACHLAN IP LIMITED trading as MACLACHLAN IP, Unit 10, 4075 Kingswood Road, Citywest Business Campus, Dublin 24 D24 C56E, Ireland.

## MyCare Plan

273731 19 August 2025

Class 36. Health insurance services; provision of health cash plans; insurance claims management relating to health and wellbeing; financial management services relating to hospitals, nursing, medical, convalescent and dental institutions; insurance; advice, information and consultancy services for all of the aforesaid services.

HSF Health Plan Limited, Westgate Business Park, 5 Kilrush Rd, Cahircalla More, Ennis, Co.Clare, Ireland. Address for service is c/o NIALL TIERNEY, Tierney IP, Galway Technology Centre, Mervue Business Park, Galway H91 D932, Ireland.

## CRITICAL HEALTHCARE

273732 01 August 2025

Class 3. Cleaning, polishing and abrasive preparations; detergents; detergent soaps; foam, liquid and powder detergents; cleaning sprays; cleaning fluids; wipes impregnated with a cleaning preparation.

Class 5. Pharmaceuticals and medical preparations; sanitary preparations for medical purposes; plasters, materials for dressings; burn dressings; burn relief medication;

preparations for the treatment of burns; impregnated films for the treatment of burns; disinfectants; disinfectants for hygiene purposes; disinfectants and antiseptics; sterilising agents, preparations, solutions and substances; detergents for medical purposes; disinfectants and sterilising preparations for cleaning, sterilising and disinfecting medical apparatus, equipment, instruments and devices; oxygen for medical purposes; diagnostic preparations for medical purposes; medical diagnostic test strips; reagents for medical and diagnostic use; biological and chemical reagents for medical and diagnostic use; reagents for in-vitro diagnostic use; reagents for use in diagnostic tests; chemical diagnostic reagents for medical use; reagents for use in testing and analysing bodily liquids, fluids and tissue; diagnostic test kits; chemical reagents for use in diagnostic tests; diagnostic reagents; test strips for measuring blood glucose levels; intravenous fluids used for rehydration, nutrition and the delivery of pharmaceutical preparations; bandages for dressings; surgical bandages; medical and surgical dressings, coverings and applicators; sterilised dressings; disinfectant dressings; first aid dressings; materials for dressing wounds; surgical tape; tapes for strapping [medical]; adhesive tapes for medical purposes; portable medicine cases; medicine cases, portable, filled; sanitising preparations for hospital use; disposable sanitising wipes; cleaners [preparations] for sterilising

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|           | <p>surgical instruments;<br/> incontinence garments, pads,<br/> diapers and napkins;<br/> disinfectant soap; detergents<br/> for cleaning and sterilising<br/> medical apparatus,<br/> equipment, instruments and<br/> devices.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>devices and instruments;<br/> inhalers; medical inhalers;<br/> nebulisers; portable<br/> nebulisers for medical<br/> purposes; tubes for medical<br/> and surgical purposes; blood<br/> glucose monitoring and<br/> testing apparatus; blood<br/> glucose meters; medical<br/> apparatus for testing the level<br/> of glucose in the blood;<br/> medical and surgical tubing;<br/> trocars; cannula; nasal<br/> cannula; endoscopy cameras<br/> for medical purposes;<br/> endoscopes; medical<br/> diagnostic instruments;<br/> diagnostic apparatus and<br/> instruments for testing and<br/> analysing bodily liquids,<br/> fluids and tissue; medical test<br/> kits for testing cardiac<br/> markers; medical apparatus,<br/> equipment, devices and<br/> instruments for use in<br/> analysing blood, urine,<br/> plasma, serum and<br/> respiratory specimens;<br/> medical apparatus,<br/> equipment, devices and<br/> instruments for use in<br/> measuring levels of<br/> constituents in blood, urine,<br/> plasma, serum and<br/> respiratory specimens;<br/> medical apparatus,<br/> equipment, devices and<br/> instruments for use in<br/> measuring blood sugar<br/> levels; medical apparatus,<br/> equipment, devices and<br/> instruments for carrying out<br/> blood tests, urine tests, serum<br/> tests, plasma tests and<br/> respiratory specimen tests;<br/> apparatus, equipment,<br/> devices and instruments for<br/> use in medical analysis;<br/> medical apparatus,<br/> equipment, instruments and<br/> devices for use in analysing<br/> saliva, blood, urine, plasma,<br/> serum and respiratory<br/> specimens; intravenous<br/> administration instruments<br/> for medical purposes;</p> |
| Class 10. | <p>Medical and surgical<br/> apparatus, equipment,<br/> instruments and devices;<br/> electronic medical and<br/> surgical apparatus,<br/> equipment, instruments and<br/> devices; medical diagnostic<br/> apparatus, equipment,<br/> instruments and devices;<br/> oxygen monitors for medical<br/> use; blood oxygen monitors;<br/> wall-mounted oxygen<br/> inhalers; glucometers;<br/> lancets; blood lancets;<br/> oxygenators for medical use;<br/> oxygen inhalators for<br/> therapeutic purposes and<br/> medical purposes; oxygen<br/> inhalers for medical<br/> purposes; oxygen<br/> concentrators for medical<br/> applications, medical<br/> purposes and medical use;<br/> oxygen sensors for medical<br/> use; oxygen masks for<br/> medical purposes; apparatus<br/> for producing oxygen for<br/> medical use; portable<br/> apparatus, equipment,<br/> instruments and devices for<br/> medical use for monitoring<br/> oxygen levels in gaseous<br/> mixtures; electronic blood<br/> oxygen saturation monitors<br/> and recorders [for medical<br/> use]; apparatus for carrying<br/> out diagnostic tests for<br/> medical purposes; sensor<br/> apparatus for medical use in<br/> monitoring the vital signs of<br/> patients; non-rebreather<br/> masks; nebuliser masks;<br/> venturi masks; medium flow<br/> masks for medical purposes;<br/> face masks for medical and<br/> surgical purposes; medical<br/> masks; respiratory therapy<br/> apparatus, equipment,</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|           | intravenous bags for medical and surgical purposes; compression bandages; bandage applicators; support bandages; dressing forceps for surgical use; forceps; forceps for medical purposes; disposable penlights for medical purposes; trauma sheers for medical use; medical bags designed to hold medical instruments; blankets for medical purposes; electric blankets for medical purposes; medical blankets for the warming of patients; medical blankets for the cooling of patients; crutches; splints for medical and surgical use; splinting materials for medical and surgical use; supportive splinting for medical use; incontinence sheets; incontinence mattress protectors; incontinence bed pads; apparatus for use in the control of incontinence; defibrillators; defibrillator monitors; apparatus for cardiac defibrillation; disposable syringes; medical syringes; syringes for medical purposes; needles for medical and surgical purposes; containers for medical waste; boxes adapted for medical waste products; containers especially adapted for the disposal of medical instruments, syringes and other contaminated medical waste; eye pads for surgical use; tape cutters for medical purposes; surgical and wound treating equipment; parts and fittings for all the aforesaid goods. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Class 24. | Textiles and textile goods, not included in other classes; bed covers; table covers; travelling blankets; bed clothes; bed blankets; cotton blankets; polyester fleece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | blankets; quilts; textile material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Class 25. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Clothing; footwear; headgear; uniforms; t-shirts; aprons; hats; jackets; coats; jerseys; pullovers; hooded pullovers; hooded tops; hooded sweatshirts; gloves; work clothes; work overalls; work shoes; wearable blankets; medical uniforms, other than for operating rooms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Class 35. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Retail services, online retail services and wholesale services relating to cleaning, polishing and abrasive preparations, pharmaceuticals and medical preparations, sanitary preparations for medical purposes, medical and surgical apparatus, equipment, instruments and devices, electronic medical and surgical apparatus, equipment, instruments and devices, medical diagnostic apparatus, equipment, instruments and devices; retail services, online retail services and wholesale services relating to textiles and textile goods, clothing, footwear, headgear, uniforms and medical uniforms; procurement services; procurement of goods on behalf of other businesses; advisory and consultancy services relating to the procurement of goods and services; stocktaking; stock control; stock management services; computerised stock ordering and management; stock control services; electronic stock management services; data-based stock control; data-based stock location services; computerised compilation of stock control records; purchasing of goods and services for other businesses; supply chain management |

services; business management of wholesale outlets; advertising services; online advertising; promotional advertising services; provision of information and advice to consumers regarding the selection of products and items to be purchased.

Critical Healthcare Limited, Kilcruttin Business Park, Cormac Street, Tullamore, County Offaly R35 X2Y4, Ireland. Address for service is c/o Fiona Gorman, C/O F. F. Gorman & Co, 15 Clanwilliam Square, Dublin 2, Ireland.

## Visit Trinity

**273733** 26 September 2022

Class 35. Marketing and advertising services; advertising, marketing and promotional consultancy, advisory and assistance services; retail services in connection with cosmetics and toiletry preparations none being cosmetic products for the hair and scalp, non-medicated dentifrices, perfumery, essential oils, bleaching preparations and other substances for laundry use, cleaning, polishing, scouring and abrasive preparations, food supplements, food for babies, medical preparations, disinfectants, badges, baskets, bins, bottle caps and bottle closures or fasteners, busts, works of art, buckles, chests and casks, clothes

hooks, figurines and statuettes, knife handles, letter boxes, memorial plates and plaques, money boxes, number plates, key rings, signs, tin cans, works of art, locks, holders, boxes and cases none being for tools, all of the foregoing being made of metal or of alloys of metal, hand tools and implements, hand-operated, cutlery, side arms, except firearms, razors and razor cases, manicure sets, nail clippers and nail files, scissors, spatulas [hand tools], tongs, credit cards, debit cards, and payment cards being encoded or capable of being encoded, computer programmes, computer software and computer systems, CD-roms, DVD-Roms, computer software to enable searching of data, printed matter and publications in electronic form (downloadable) provided on-line from a database or facilities provided on the internet (including websites) or other computer networks, pre-recorded compact discs or optical discs, pre-recorded tapes including video tapes and cassettes and audio cassettes, sound recordings, electronic memory cards and electronic cards, computer games and computer games software, containers for contact lenses, magnets, pocket calculators, luminous signs, smart cards, encoded cards and encrypted cards, spectacles cases and frames, sunglasses, parts and fittings for all the aforesaid but not including apparatus and computer programs for production on video, television and computer entertainment and information, apparatus and



computer programs for digital video switching, chroma-keying, special effects, generating graphics and animations, audio mixing, character generation, still image storing, timeline editing and computer networking, egg timers, precious metals and alloys of precious metals, articles of jewellery included in Class 14 made of precious metals or coated therewith, jewellery, badges and buckles of precious metal, cases of precious metal, boxes of precious metal, works of art of precious metal, figurines or statuettes of precious metal, tie clips and pins, cuff links, clocks, coins and copper tokens, objects of imitation gold, key-rings, medals, trinkets [jewellery], horological and chronometric instruments, keyrings, jewellery cases and caskets, parts and fittings included in Class 14 for all the aforesaid goods, musical instruments, music stands and stands for musical instruments, conductors' batons, paper and cardboard, printed matter, printed publications, albums, almanacs, bags of paper or plastic for packaging, wrapping paper, binders, binding strips and bookbinding material, book-ends, booklets, book markers and books, brochures, boxes of cardboard or paper, envelopes or wrappers of cardboard or paper, diaries and calendars, cardboard articles, cards and playing cards, catalogues and charts, chromolithographs, coasters of paper or cardboard, covers, paper cutters and knives, drawing instruments and materials, engravings and prints, erasing products

and rulers, etchings, files and folders, paper flags, printed forms and pamphlets, periodicals and magazines, manuals and newsletters, advertising and promotional materials, webpages downloaded from the Internet in the form of printed matter, non-textile labels, lithographic works of art and lithographs, fountain pens, pens, pencils, pencil sharpeners, pencil and pen holders and writing materials, graphic prints and reproductions, paper weights, tickets, notebooks and pads, scrap-books, office requisites other than furniture, packing paper, pictures, instructional and teaching material other than apparatus, paper placemats, cloths and napkins, postcards and posters, signs of paper or cardboard, stencils, stickers and transfers, photographs and photo engravings, stationery, ordinary playing cards, leather, imitation leather, animal skins and hides, umbrellas and umbrella covers, parasols, sunshades ( in the nature of parasols), bags, pouches, wallets, purses, cases of leather, boxes of leather, articles of luggage and carrying bags, trunks, backpacks, satchels, rucksacks, haversacks and briefcases included in Class 18, belts and bands of leather, imitation leather, animal skins or hides, collars and leashes for animals, clothing for animals, envelopes of leather for packaging, key cases, leather leads and leashes, walking sticks, canes, plaques of plastic and wood, picture frames, mirrors, furniture, works of art of wood, wax, plaster or plastic, display

stands and boards, sign boards of wood or plastic, placards of wood or plastic, decorative wall plaques not of textile, non-metal bottle caps and casings, corks for bottles, busts of wood, wax, plaster or plastic, non-metal closures for containers, clothes hooks, coat hangers, pillows and cushions, decorations of plastic for foodstuffs, decorative mobiles, trays, not of metal, statues and figurines of wood, wax, plaster or plastic, non-metal and non-luminous house numbers, key boards for hanging keys, magazine racks, non-metal name plates and number plates, non-metal plugs and stoppers, wicker work, shells, Meerschaum, Yellow amber, glass, glassware, crystal, earthenware, pottery, crockery and porcelain, all included in Class 21, baskets for domestic use, bottle openers and bottles, holders, boxes and cases of glass included in Class 21, brush goods and combs, perfume burners and sprayers, figurines and busts of china, earthenware, pottery, terracotta or glass, household trays, candlesticks, candle extinguishers and candle rings, ceramics for household purposes, china, glass, earthenware and pottery ornaments, coasters [tableware], cork screws, drinking vessels, cups, mugs, decanters, goblets, tankards, urns, vases, bowls, salt cellars and salt shakers, dishes, flasks, egg cups, jars, jugs and pots, enamelled glass, holders for flowers and plants, napkin holders and napkin rings not of precious metal, piggy banks, shoe horns, signs of porcelain, earthenware, pottery or glass,

tableware not of precious metal, toothbrushes and toothpicks, works of art of porcelain, earthenware, pottery, terracotta or glass, ladles for serving wine, salt cellars and salt shakers, sacred vessels, napkin holders, napkin rings, jugs, dishes, cups, flasks, goblets, tankards, containers of precious metals [household], urns and vases of precious metal plaques of glass, pottery, earthenware and porcelain, tea cosies, drinking straws, textiles included in Class 24, curtains, tea towels and towels, textile banners, textile flags, beach towels, valances, sheets, duvet covers, bath and bed linen, table and household linen, bed blankets, cloths and covers, bedspreads, bunting, textile coasters, loose covers for eiderdowns, textile handkerchiefs, textile labels, place mats of textile, mattress covers, fabrics, pillow cases and pillow shams, quilts, travelling rugs, table runners of textile, napkins and serviettes, sleeping bags, table cloths, wall hangings of textile, curtain tiebacks, articles of clothing included in Class 25, headgear, footwear and hosiery, pyjamas, dressing gowns and bathrobes, sweatshirts, t-shirts, polo shirts, fleeces, bodywarmers, rugby shirts, track suits, blouses, jackets, jumpers, braces, gloves and mittens, neck ties, scarves and shawls, socks and stockings, lace, embroidery, badges for wear, not of metal or precious metals, buttons, rosettes, haberdashery, ribbons and braid, hair bands, hair slides, hair ornaments and hair pins, belt

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <p>clasps, pin cushions, hat ornaments not of precious metal, heat adhesive patches for decoration of textile articles, fasteners and edgings for clothing, brooches for clothing, buckles for clothing and footwear, games (other than ordinary playing cards), toys and playthings, party novelty hats, shinguards, gloves for games, balloons balls, video game apparatus, gymnastic and sporting articles (other than clothing), playing balls, footballs, teddy bears, decorations for Christmas trees, Christmas crackers, synthetic Christmas trees and stands, cups for dice, darts, dice, dolls and dolls' clothes, dolls' beds, dolls' houses and rooms, tables for indoor football, golf bags and gloves, jokes and novelties, spinning tops, kites, knee guards and protective padding, marbles, marionettes and puppets, skis, slides, skateboards, skittles, sleighs, masks, mobiles [toys], rattles, roller skates, body building apparatus, coffee, tea, cocoa and artificial coffee, rice, pasta and noodles, tapioca and sago, flour and preparations made from cereals, bread, pastries and confectionery, chocolate, ice cream, sorbets and other edible ices, sugar, honey, treacle, yeast, baking-powder, salt, seasonings, spices, preserved herbs, vinegar, sauces and other condiments, ice (frozen water), none of the aforementioned service relating to commodities trading or risk management solutions.</p> |           | <p>travel and transport reservation services; escorting of travellers; transportation of passengers; organizing excursions; provision of information, consulting and advisory services relating to all the aforesaid services. Arranging, organising and conducting tours; arranging, organising and conducting tours of the campus; arranging, organising and conducting audio-visual tours of the campus.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Class 39. | Travel agency and travel booking services; sightseeing and tour arranging services;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Class 41. | <p>Arranging, organising, conducting and hosting guided tours; arranging, organising and conducting guided tours of the campus; arranging, organising and conducting audio-visual guided tours of the campus. Arranging and conducting tours of historic and cultural buildings and sites; arranging and conducting tours of universities and educational establishments; arranging excursions to historic and cultural buildings and sites; arranging excursions to universities and educational establishments; ticket booking and reservation services in respect of tours of historic and cultural buildings and sites; ticket booking and reservation services in respect of tours of universities and educational establishments; rental of audio apparatus for use on sightseeing tours and guided tours; arranging, organising, conducting and hosting for exhibitions, conferences, events, meetings, programmes; provision of information, consulting and advisory services relating to all the aforesaid services.</p> |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Class 42. | Licensing of intellectual property; information provided on-line from a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

computer database or the Internet; creating and maintaining websites and hosting the websites of others; leasing access time to computer databases and to on-line computer services; advice and information relating to the aforesaid services.

Class 43. Providing temporary rental of accommodation; venue hire. Rental of temporary accommodation and accommodation reservations; provision of food and drink; hotel, restaurant, cafe and catering services; providing facilities for exhibitions.

THE PROVOST, FELLOWS, FOUNDATION SCHOLARS, AND THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN, College Green, Dublin 2, Ireland. Address for service is c/o MACLACHLAN IP LIMITED trading as MACLACHLAN IP, Unit 10, 4075 Kingswood Road, Citywest Business Campus, Dublin 24 D24 C56E, Ireland.

The application for registration is proceeding with the consent of the proprietors of Registered Irish Trade Mark No.'s 21160, 227040 and the proprietors of Registered European Trade Mark No.'s 010520245, 015702624 and the holders of International Trade Mark No. 0820645.

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**PEOPLE'S**

**273734** 20 August 2025

Class 36. Pension fund administration/administration of pension schemes; Management of pension

schemes/pension funds; Pension services; Trusteeship of pensions; Pensions consultancy; Pension scheme services; Pensions advisory services; Financial services relating to pensions; Financial management of pensions; Financial advice relating to pensions; Financial administration of pension plans; Advice relating to pensions; Provision of pension information; Insurance services relating to pension funds; Insurance services; life insurance; workplace accident insurance; health insurance.

Priority Date Claimed: 02 June 2025 United Kingdom

People's Partnership Limited, Manor Royal, Crawley, West Sussex RH10 9QP, United Kingdom. Address for service is c/o TOMKINS & CO., 5 Dartmouth Road, Dublin 6, Ireland.

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people's

people's

people's

Application is for a Series of 3 Trade Marks.

**273735** 20 August 2025

Class 36. Pension fund administration/administration of pension schemes; Management of pension schemes/pension funds; Pension services; Trusteeship of pensions; Pensions consultancy; Pension scheme services; Pensions advisory services; Financial services relating to pensions; Financial management of pensions; Financial advice relating to pensions; Financial administration of pension plans; Advice relating to pensions; Provision of pension information; Insurance services relating to pension funds; Insurance services; life insurance; workplace accident insurance; health insurance.

Priority Date Claimed: 02 June 2025 United Kingdom

People's Partnership Limited, Manor Royal, Crawley, West Sussex RH10 9QP, United Kingdom. Address for service is c/o TOMKINS & CO., 5 Dartmouth Road, Dublin 6, Ireland.

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## Freznal

**273736** 22 August 2025

Class 42. IT services.

EastPoint Enterprise Information Solutions Ltd, C4 The Exchange, Calmount Business Park, Dublin D12C867, Ireland. Address for service is c/o EastPoint Enterprise Information Solutions Ltd, C4 The Exchange, Calmount Business Park, Dublin D12C867, Ireland.

## BLOC GROUP

**273737** 06 January 2025

Class 16. Printed matter; stationery; brochures; catalogues; books; training manuals; printed publications; reference books; programmes; binders; instructional and teaching materials; directories; advertising and promotional materials; all the aforesaid goods being for use in the office or workplace and/or in the workplace and office supplies sector.

Class 35. Assistance given to companies and individuals in the field of business management; business negotiating and purchasing services; distribution of samples; advertising and promotional services; publishing of advertising texts; negotiation services; preparation of advertising and publicity material; sales promotion services; planning, creation and dissemination of business information; collation and compilation of data; business research; statistical information; management of computer databases; strategic marketing advisory and consultancy services; purchasing services; business research and planning services; preparation of business statistics; business consultation services; accounting services; business appraisal; business and organisation consultancy; business and management, information, consultancy and advisory services relating to ecology, the environment, environmental conservation,

pollution control and climate change; business consultancy and information in connection with sustainable products, services, enterprises and consumption consumer research provision of business information; direct mail advertising; business management and organisation consultancy; business statistical studies and provision of business statistical and commercial information; consultancy on targeting communications to customers and potential customers; data processing services; the bringing together of a variety of goods, for the benefit of others, enabling persons and companies to conveniently view and purchase those goods from a catalogue, in a warehouse, by mail order, by telephone or by means of other telecommunication such as over the Internet; marketing services; advertising services; business promotional services; trade promotional services; provision of business and trade information; organisation of a trade association; mail order retail and wholesale services, connected with the sale of workplace and office products, workplace and office supplies, workplace and office requisites and workplace and office furniture; organisation of business and trade exhibitions, functions, events, conferences and symposia; compilation of business directories; sourcing of office products and stationery items for third parties; information and advisory services relating to all the aforesaid; all the aforesaid services being

provided in connection with the sale, distribution, sourcing and supply of workplace products and supplies; information advisory and consultancy services, all relating to the aforesaid services.

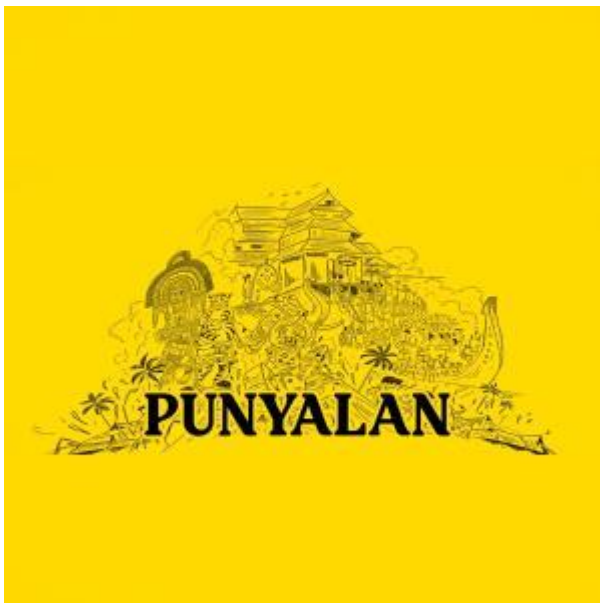
Class 38. Provision of access to market information, data, statistics and analysis; all of the aforesaid services being provided in connection with the sale, distribution, sourcing and supply of workplace products and supplies.

Class 41. Training; arranging and conducting of seminars, courses, workshops; educational services; training programmes; information and advisory services relating to all the aforesaid; all the aforesaid services being provided in connection with the sale, distribution, sourcing and supply of workplace products and supplies.

Class 42. Design services, website design; design of packaging, advertising, marketing, display and presentational materials; computer and information technology consultancy services; research services; quality control services, including performance assessment, assessing the ability to fulfil orders efficiently; information technology support services; consultancy in the field of computer hardware and software; computer programming services; computer systems analysis and design; information and advisory services relating to all the aforesaid; all the aforesaid services being provided in connection with the sale, distribution and supply of

workplace products and supplies.

Integra Business Solutions Limited, Merlin House, No 1 Langstone Business Park, Newport NP18 2HJ, United Kingdom Office Friendly Dealer Association Ltd, The Hart Shaw Building, Europa Link, Sheffield, South Yorkshire S9 1XU, United Kingdom. Address for service is c/o MACLACHLAN IP LIMITED trading as MACLACHLAN IP, Unit 10, 4075 Kingswood Road, Citywest Business Campus, Dublin 24 D24 C56E, Ireland.



**273738** 06 June 2025

Class 30. Rice snacks; Flour based savory snacks.

Priority Date Claimed: 07 February 2025 United Kingdom

Joshy John, Flat 1, 24, Market Place, North Walsham NR28 9BS, United Kingdom. Address for service is c/o Joshy John, C/o Haafiz Mohamed Esahak, Cloonfour, Roosky, Co. Roscommon N41Y277, Ireland.

# REVIM GROUP

**273739** 21 August 2025

Class 35. Business consulting services.

Class 42. Computer software consulting.

REVIM GROUP LIMITED, 16 Woodstown Hill, Knocklyon D16 E379, Ireland. Address for service is c/o REVIM GROUP LIMITED, 16 Woodstown Hill, Knocklyon D16 E379, Ireland.

The mark in use is/will be in the colour(s) Blue: Pantone 2925 C Black: Pantone Black 6C

## VIANOVA

**273740** 21 August 2025

Class 36. Financial affairs; monetary affairs; financial transactions; financial banking; financial clearing; automated banking services; financial management of cash accounts; cash management services; cash flow management services; provision of information with respect to stock transactions, and other financial information; provision of information with respect to company credit investigations; financial risk management; financial risk management consultancy.

CLEARPAY DAC, Floor 3, One Molesworth Street, Dublin D02 RF29, Ireland. Address for service is c/o FRKelly, Waterways House, Grand Canal Quay, Dublin D02 PD39, Ireland.

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## Hydroxy Surge

273741 12 June 2025

Class 5. Dietary supplement drinks;  
Dietary food supplements.

Hydroxy Surge, Cuilbeg, Lavally, Tuam H54 YT20, Ireland. Address for service is c/o Ciaran Gleeson, C/o Hydroxy Surge, Cuilbeg, Lavally, Tuam H54 YT20, Ireland.

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## ErnieBot

273742 03 April 2025

Class 9. Information technology and audio-visual, multimedia and photographic equipment; data processing equipment and accessories, electrical and mechanical; computers and computer hardware; software; application software; Internet bots being computer programs; computer chatbot software for simulating conversations; mobile apps; games software; communication,

networking and social networking software; data and file management and database software; privacy protection software; artificial intelligence and machine learning software; artificial intelligence software for analysis; system and system support software, and firmware; privacy software; privacy protection software.

Class 35. Advertising, marketing and promotional services; organisation of prize draws for advertising purposes; loyalty, incentive and bonus program services; administration of consumer loyalty programs; data processing, systematisation and management; business information; business inquiries; organisation, operation and supervision of an incentive scheme; promoting the sale of goods and services of others by means of contests and incentive award programs; administration of loyalty and incentive schemes; commercial intermediation services; compilation of information into computer databases; negotiation and conclusion of commercial transactions for third parties; negotiation of business contracts for others; opinion polling.

Class 36. Financial, monetary and banking services; financial transfers and transactions, and payment services; financial transaction services namely distributed ledger-based transactions [financial, blockchain]; brokerage [financial]; brokerage of personal data for advertising; digital payment services; digital voucher and coupons issuing services; digital wallet [payment services];



- financial management of reimbursement payments for others; issuing electronic payment cards in connection with bonus and reward schemes; issuance of tokens of value; micropayment services; tokenization of transactions.
- Class 38. Telecommunication services; computer communication and Internet access; provision of access to content, websites and portals; providing access to chatrooms; data communication services by electronic means; instant messaging services.
- Class 41. Education and training; instruction services; on-line publication of electronic books and journals providing online games; providing on-line electronic publications, not downloadable; providing on-line music, not downloadable; providing on-line videos, not downloadable; publication of texts and images, including in electronic form, except for advertising purposes.
- Class 42. IT services; hosting services, software as a service, and rental of software; providing artificial intelligence computer programs on data networks; platform as a service [PaaS]; software as a service; IT security, protection and restoration; cloud-based data protection services; IT services for data protection; applying a digital seal to a data set, namely, recording the consent of a user to an agreement in a digital seal applied to a database record representing the agreement; digital signature services, namely, recording the consent of a user by creating a digital signature; online signing

services, namely, recording the consent of a user by creating a digital signature in a web or mobile application.

- Class 45. Legal services; on-line social networking services; legal services relating to on-line tracking of personal identifiers stored by third parties; legal services relating to on-line tracking of privacy data retrieved by third parties; legal services relating to on-line tracking of stolen privacy data; security services for protecting privacy data; legal services relating to on-line services for providing evidence of a user's consent to an agreement.

Ernieapp Ltd., 88 Harcourt Street, Dublin 2 D02 DK18, Ireland. Address for service is c/o Peter Herre, Dendorfer & Herrmann Patentanwalte Part mbB, Nymphenburger Str. 20a, 80335 Munich, Germany.

## The Nightmare Realm

273743 09 April 2025

- Class 16. Printed artwork; posters; art prints; postcards; greeting cards; notebooks; stickers; zines; bookmarks; printed letters; collectible stationery; packaging materials; printed publications; gift tags and labels; decorative paper items featuring horror, gothic, or seasonal themes.
- Class 21. Mugs; drinking vessels; candle holders; decorative figurines; glassware; bowls;

jars; vases; ornaments;  
trinket dishes; soap  
dispensers; skull-themed or  
gothic tableware; seasonal  
decorations made of ceramic,  
glass, or resin.

Class 25. Clothing; hoodies; t-shirts;  
hats; costumes; footwear;  
headgear.

Class 41. Entertainment services; live  
immersive horror attractions;  
haunted house experiences;  
themed entertainment events;  
production of live shows;  
seasonal festivals; theatrical  
performances; escape rooms;  
interactive storytelling  
experiences; organisation of  
cultural events; education  
and training in the field of  
immersive entertainment;  
providing haunted attractions  
and themed walk-throughs  
for entertainment purposes.

Class 43. Provision of food and drink;  
operation of themed food  
stalls; haunted dining  
experiences; pop-up  
restaurants and bars; themed  
hospitality services.

The Nightmare Realm LTD, Meinleirim,  
Knocknagoshel, Tralee, Kerry V92T2W6, Ireland.  
Address for service is c/o The Nightmare Realm  
LTD, C/O Karl O Connor, Meinleirim,  
Knocknagoshel, Tralee, Kerry V92T2W6, Ireland.



**273744** 02 August 2025

Class 41. Academies [education];  
Education services; Further  
education; Education  
examination; Education  
information; Information  
(Education -); Educational  
research; Educational  
instruction; Educational  
testing; Academy education  
services; Educational  
seminars.

Shahram Azizi Sazi, 24 rowans road, Dublin  
D16V279, Ireland. Address for service is c/o  
Shahram Azizi Sazi, 24 rowans road, Dublin,  
Ireland.

## 3DBL Home

**273745** 16 June 2025

Class 6. Bicycle locks.

Michael Kearney, 70 Carysfort Park, Blackrock,  
Dublin A94 AK28, Ireland. Address for service is  
c/o Michael Kearney, 70 Carysfort Park, Blackrock,  
Dublin A94 AK28, Ireland.



**273746** 09 August 2025

Class 35. Business management; business administration; recruitment services; employment agency services; business networking services; provision of business information relating to recruitment; online business networking services; compilation of information into computer databases for recruitment and employment purposes.

Class 41. Education and training services; vocational guidance; arranging and conducting of training workshops, seminars, and courses; provision of online training; providing of skills-based training relating to employment.

Class 42. Software as a Service (SaaS) featuring software for recruitment, job placement, and workforce management; hosting of online platforms for employment and recruitment; design and development of computer software; providing temporary use of non-downloadable software for database management.

JOBLAR LTD, Apt 76, Bushy Park House, Dublin D6WTX34, Ireland. Address for service is c/o JOBLAR LTD, c/o Laura Colleran, Apt 76, Bushy Park House, Dublin 6w D6WTX34, Ireland.



**273747** 09 August 2025

Class 16. Books; Magazines; Stickers; Sticker books; Posters.

Class 25. Clothes; Hats.

Class 28. Toys.

Class 41. Entertainment.

Suelen Judic Monteiro, 100 Cois Ghruda, Limerick V94X4X7, Ireland. Address for service is c/o Suelen Judic Monteiro, 100 Cois Ghruda, Limerick V94X4X7, Ireland.



**273748** 20 August 2025

- Class 35. Business investigations.
- Class 41. Training consultancy.
- Class 45. Security consultancy; Private investigation services; Criminal investigation services.

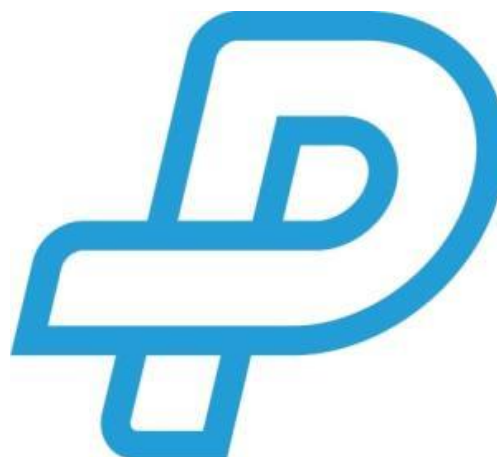
Hayes Ryan Solutions Limited, 235 Oldbridge Station, Osberstown, Naas, Co. Kildare W91HR26, Ireland. Address for service is c/o Hayes Ryan Solutions Limited c/o Philip Ryan, 235 Oldbridge Station, Osberstown, Naas, Co. Kildare W91HR26, Ireland.

## CraveChill

**273749** 25 July 2025

- Class 32. Carbonated non-alcoholic drinks; Non-alcoholic flavored carbonated beverages; Non-alcoholic carbonated beverages.

Mihai Aurelian Bursuc, 5 Cluain Na Greene, Cloneygowan, Offlay R35YF53, Ireland. Address for service is c/o Mihai Aurelian Bursuc, 5 Cluain Na Greene, Cloneygowan, Offlay R35YF53, Ireland.



**273750** 11 August 2025

- Class 35. Computerised payroll preparation; Payroll preparation; Wage payroll preparation; Data processing services in the field of payroll; Payroll processing services [for others].

Parolla Limited, 5 Springhill court, Tramore, Waterford X91V8Y2, Ireland. Address for service is c/o Parolla Limited, 5 Springhill court, Tramore, Waterford X91V8Y2, Ireland.

The mark in use is/will be in the colour(s) Hex #289bdb

## Clevermoney

273751 12 August 2025

Class 36. Financial services; Financial brokerage; Financial advice; Financial planning; Financial investment; Financial investments; Financial consulting; Financial consultation; Financial consultancy; Financial brokerage services; Financial advisory services; Financial consulting services; Financial consultancy services; Financial consultation services; Financial investment services; Financial asset management; Financial planning services; Financial portfolio management; Personal financial planning; Financial intermediary services; Financial planning and management; Financial management and planning; Financial management for businesses; Financial management of pensions; Administration of financial affairs; Financial management of funds; Financial strategy consultancy services; Brokering of financial services; Financial investment fund services; Financial investment research services; Provision of financial advice; Financial investment advisory services; Pension fund financial management; Financial analysis and consultancy.

Joseph Carroll, 18 Curragh Hill, Tullamore R35KD53, Ireland. Address for service is c/o Joseph Carroll, 18 Curragh Hill, Tullamore R35XF38, Ireland.



273752 12 August 2025

Class 16. Posters.  
Class 25. Hooded sweatshirts; Sweatshirts; T-shirts.  
Class 40. T-shirt printing.

Maire Ni Laighin, Main Street, Dingle V92 HK18, Ireland. Address for service is c/o Maire Ni Laighin, Main Street, Dingle V92 HK18, Ireland.

## NANOSENSE

273753 25 August 2025

Class 3. Detergents; preparations and substances, all for laundry use; fabric conditioning preparations, fabric softeners; bleaching preparations; stain removing preparations; soaps; soaps for brightening textiles; preparations for washing clothing and textiles by hand; laundry starch; cleaning,

polishing, scouring and  
abrasive preparations.

Unilever Global IP Limited, Port Sunlight, Wirral,  
Merseyside CH62 4ZD, United Kingdom. Address  
for service is c/o FRKelly, Waterways House, Grand  
Canal Quay, Dublin D02 PD39, Ireland.

**OOFOS**

**273754** 22 October 2024

Class 25. Footwear;clothing.

Class 35. Retail store services and on-  
line retail store services in  
connection with the sale of  
footwear and apparel.

Priority Date Claimed: 17 October 2024 United  
States of America

OOFOS,INC., 350 Granite Street, Braintree,  
Massachusetts, 02184, United States of America.  
Address for service is c/o FR Kelly, Waterways  
House Grand Canal Quay, Dublin D02 PD39,  
Ireland.



**273755** 21 August 2025

Class 44. Podiatry services.

Aoife Nolan, Kilnabin, Tullamore R35 W023,  
Ireland. Address for service is c/o Aoife Nolan,  
Kilnabin, Tullamore R35 W023, Ireland.

The mark in use is/will be in the colour(s) Blue,  
Green, and Black



**273756** 08 April 2025

- Class 41. Kindergarten services [education or entertainment]; Childcare educational services; Pre-school services.
- Class 43. Food preparation services.

Tom Bitiu, 26 Killester Park, Dublin 5 D05FH50, Ireland. Address for service is c/o Tom Bitiu, 26 Killester Park, Dublin 5 D05FH50, Ireland.

The mark in use is/will be in the colour(s) Orange, Dark Green and Light Green

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**socialvoice.ai**

**273757** 22 August 2025

- Class 9. Artificial intelligence software; Electronic databases; Databases (electronic).

- Class 35. Marketing; Advertising and marketing services provided by means of social media; Advertising; Market analysis; Advertising analysis.
- Class 38. Telecommunications.
- Class 41. Training.
- Class 42. Software as a service [SaaS] featuring computer software platforms for artificial intelligence; Computer analysis.
- Class 45. Content moderation for internet chatrooms; Reviewing standards and practices to assure compliance with laws and regulations.

Fergal Lennon, Building 6500, Avenue 6000, Lehenagh More, Cork Airport Business Park, Cork T12E6RY, Ireland. Address for service is c/o Fergal Lennon, Building 6500, Avenue 6000, Lehenagh More, Cork Airport Business Park, Co. Cork, Cork T12 E6RY, Ireland.

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**Clean Bean Burner**

**273758** 26 August 2025

- Class 4. Biomass fuel; Firelighters; Firelighters for grills; Firelighters [kindling woods]; Firelighters in the nature of kindling woods; Briquettes (Combustible -); Briquettes.

Clean Bean Coffee Recycling LTD, 28 Beechwood Grove, Convoy, Donegal F93HP83, Ireland. Address for service is c/o Clean Bean Coffee Recycling LTD, C/O Mark McGowan, 28 Beechwood Grove, Convoy, Donegal F93HP83, Ireland.



**273759** 27 August 2025

Class 25. Clothes.

Shea Mellin, 78 Mullaharlin Park, Dublin Road, Dundalk A91 C8WD, Ireland. Address for service is c/o Shea Mellin, 78 Mullaharlin Park, Dublin Road, Dundalk A91 C8WD, Ireland.

## GERRY GRENNELL METHOD

**273760** 21 August 2025

Class 41. Education; training; entertainment; acting instruction and coaching services; drama and theatrical training; workshops and masterclasses in acting techniques; education, training and entertainment services relating to acting, drama, theatre, the performing arts, music, and dancing; production and presentation of theatrical performances, staged events, dramatic productions, concerts, ballet, and opera; casting services for entertainment purposes; talent development and management services in the field of acting and performing arts; production and publication of educational materials, books, periodical publications, newsletters and magazines relating to acting and the performing arts; production of sound recordings, video recordings and films for educational and entertainment purposes; provision of online electronic publications, digital educational content, and recordings of performances (not downloadable) via the Internet; professional consultancy and advisory services relating to acting, drama, theatrical performance, career development in the performing arts, music, opera and the arts; mentoring services in the field of acting and performing arts;



information, advisory, and consultancy services relating to the aforesaid services.

Gerry Grennell, 3 Ardee Rd, Rathmines, Dublin D06 FK18, Ireland. Address for service is c/o BIRD & BIRD LLP, Avenue Louise 235, 1050 Bruxelles, Belgium.



**273761** 26 August 2025

Class 41. Training.

Mark Lane, 3 Mellowes Crescent, DUBLIN 11 D11 A4A4, Ireland. Address for service is c/o Mark Lane, 3 Mellowes Crescent, DUBLIN 11 D11 A4A4, Ireland.

**273762** 31 March 2025

Class 24. Textile fabrics for use in the manufacture of sportswear.

Class 25. Sportswear.

Cathal Bourke, Bourke Sports, Castlequarters, Borrisoleigh, Thurles, Co Tipperary E41 EP08, Ireland. Address for service is c/o Cathal Bourke, Bourke Sports, C/o Marie Maher, Castlequarters, Borrisoleigh, Thurles E45 EP08, Ireland.

Application altered on 30/09/2025 from a series of 2 to a single mark.

The mark in use is/will be in the colour(s) Black and White



**273763** 22 June 2025

Class 41. Online education services.

Tiago Da silva Mascarenhas, SEDA College, 68, Dublin D8, Ireland. Address for service is c/o Tiago Da silva Mascarenhas, 68 Capel Street, Dublin D1, Ireland.

## POP MARKS

**273764** 26 August 2025

Class 32. Non-alcoholic beverages; mineral and aerated waters; fruit beverages and fruit juices; syrups and other non-alcoholic preparations for making beverages; tomato juice [beverage]; vegetable juices; waters; carbonated soft drinks.

Marks and Spencer plc, Waterside House, 35 North Wharf Road, London W2 1NW, United Kingdom. Address for service is c/o Stobbs Ireland Limited, Suite 308, The Merrion Buildings, 18-20 Merrion Street Upper, Dublin D02 XH98, Ireland.

## Pawfect Pooches

**273765** 23 August 2025

Class 18. Collars, harnesses, leads, and leashes for animals; clothing for animals; accessories for animals not included in other classes, pet accessories made of fabric, nylon, or other materials.

Hayley Pickering, 38 Brookmount, Tallaght, Dublin D24 FR1V, Ireland. Address for service is c/o Hayley Pickering, 38 Brookmount, Tallaght, Dublin D24 FR1V, Ireland.



**273766** 26 August 2025

Class 10. Mobility aids.

Chris Phelan, Phelans Pharmacy, Main Street Carrigaline, Cork P43HW57, Ireland. Address for service is c/o Chris Phelan, Phelans Pharmacy, Main Street Carrigaline, Cork P43HW57, Ireland.

The mark in use is/will be in the colour(s) RGB: 0 / 46 / 93Hex: 002E5DCMYK: 100 / 71 / 9 / 56Pantone C: 648RAL: 5013RGB: 165 / 0 / 52Hex: A50034CMYK: 5 / 100 / 48 / 22Pantone C: 207RAL: 3027

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## Fibroleaf

**273767** 27 August 2025

Class 5. Dietary food supplements.

Luke Purcell, 33 Beechpark, Viewmount, Ardkeen, Waterford X91XhR3, Ireland. Address for service is c/o Luke Purcell, 33 Beechpark, Viewmount, Ardkeen, Waterford X91XhR3, Ireland.

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## Cephas

**273768** 25 August 2025

Class 25. Clothing.

Shea Mellin, 78 Mullaharlin Park, Dundalk A91 C8WD, Ireland. Address for service is c/o Shea Mellin, 78 Mullaharlin Park, Dundalk A91 C8WD, Ireland.

## Flow Mitt

**273769** 19 May 2025

Class 21. Cleaning mitts; car washing mitts; microfiber cleaning gloves; gloves for household cleaning; hand-operated cleaning tools with integrated fluid distribution systems.

Brite Wind Consulting Limited, Grangemore, Raharney, Westmeath N91N920, Ireland. Address for service is c/o Brite Wind Consulting Limited, c/o Bernard Dunne, Grangemore, Raharney, Westmeath N91N920, Ireland.

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## 4571

**273770** 07 August 2025

Class 5. Pharmaceutical preparations.

Gilead Sciences Ireland UC, IDA Business & Technology Park, Carrigtohill, Cork T45 DP77, Ireland. Address for service is c/o Patricia McGovern, c/o DFMG Solicitors LLP, 38/39 Fitzwilliam Square, Dublin D02NX53, Ireland.



273771 23 August 2025

Class 35. Online advertisements; Online advertising; Online marketing; Online advertising services; Online retail services relating to cosmetics; Online retail services relating to luggage; Online retail services relating to jewelry; Online retail services relating to clothing; Online retail services relating to handbags; Online retail services relating to toys; Online retail store services relating to clothing; Online retail store services in relation to clothing; Online retail store services relating to cosmetic and beauty products.

SERHII RAKHMATULIN, Street Haiok, Building 221, Bila Tserkva 09104, Ukraine. Address for service is c/o SERHII RAKHMATULIN, Unit 1A Heatherview Business Park, Athlone Rd PMB, Co. Longford, Longford N39KD82, Ireland.



Application is for a Series of 2 Trade Marks.

273772 26 August 2025

Class 42. Interior design; Interior decorating; Interior decoration consultation; Commercial interior design; Interior architectural services; Interior decor design; Interior decorating design; Interior design services; Design of interior decoration; Design of building interiors; Architectural design for interior decoration; Interior design services for shops; Advisory services relating to interior design; Consultancy services relating to interior design; Consultation services relating to interior design; Interior design services for the retail industry; Design

services for architecture, and interior and exterior design for buildings; Technical consulting in the field of interior design; Design services relating to interior decorating for homes; Furnishing design services for the interiors of buildings; Design of interior decor; Interior and exterior design services; Design services for building interiors; Design services relating to interior decoration; Design of interior decor for shops; Design services for the interior of buildings; Planning [design] of bars; Design of restaurants; Planning [design] of restaurants; Design services in relation to restaurants; Design of hotels; Services for the planning [design] of hotels; Design consultation.

Graham O'Donnell, 2nd Floor Gratton House, Temple Road Blackrock, Dublin A94 FA39, Ireland. Address for service is c/o Graham O'Donnell, 2ND Floor Gratton House, Temple Road Blackrock, Dublin A94FA39, Ireland.

The mark in use is/will be in the colour(s) Black background with white writing White Background with black writing

## Dublin Cocktail Week

**273773** 27 July 2025

- Class 35. Promotion of special events.
- Class 41. Organization of entertainment events.

Ross McGregor, Unit 10, District 10, 25 Greenmarket, Dundee DD1 4qb, United Kingdom. Address for service is c/o Ross McGregor, c/o Abigail Groves, Drumbrastle East, Acres, Newport, County Mayo F28 R461, Ireland.



PURPLE ROSE FUNDRAISING  
Generating Income for your Communities Tomorrow.

**273774** 26 August 2025

- Class 35. Business consultancy; Business planning.
- Class 36. Business brokerage; Financing and funding services; Raising of funds for financial purposes.

Daragh Matthews, Apt 219, Main St, Belmayne D13T8KW, Ireland. Address for service is c/o Daragh Matthews, Apt 219, Main St, Belmayne D13T8KW, Ireland.

The mark in use is/will be in the colour(s) Purple logo Black text on white

## Burnout Tax

**273775** 27 August 2025

- Class 41. Coaching; Coaching [training]; Coaching services; Personal coaching

[training]; Life coaching (training); Coaching relating to finance; Career counselling and coaching; Health and wellness training.

Michelle Whelan, 6 woodview park, Avoca, Wicklow Y14 KX29, Ireland. Address for service is c/o Michelle Whelan, 6 woodview park, Avoca, Wicklow Y14 KX29, Ireland.

The mark in use is/will be in the colour(s) Red

business strategy and management; coaching [training]; professional development training services; publication of educational materials relating to business strategy.

Joy Slattery, Long Meadow, Stradbally, Castleconnell, limerick V94A38R, Ireland. Address for service is c/o Joy Slattery, Long Meadow, Stradbally, Castleconnell, limerick V94A38R, Ireland.

## Strategy by Design

273776 25 August 2025

- Class 9. Downloadable electronic publications in the field of business strategy and management; downloadable training materials; computer software and mobile applications for business management, strategic planning and professional development; digital dashboard software for business performance tracking.
- Class 35. Business consultancy services; business strategy development; business management consulting; advisory services relating to business management and business operations; business organisation consultancy; business planning; assistance in the management of business activities.
- Class 41. Education and training services; provision of workshops, seminars and courses in the fields of



273777 26 August 2025

- Class 44. Medical services; Healthcare services.

Dr Zelig Gaffney- Daly, Newmarket Primary Care Centre, Newmarket, Co. Cork P51 W2PY, Ireland Dr Bertie Daly, Newmarket Primary Care Centre, Newmarket, Co. Cork, Ireland. Address for service is c/o Cruickshank, 8 A Unit, Sandyford Business Centre, Sandyford D18R2N8, Ireland.

## ENJOY YOUR JOURNEY

273778 14 May 2025

Class 4. Fuel; motor fuel; motor oils; gasoline; diesel; petrol; petrol ether; motor vehicle lubricants; fuel with alcoholic base; vaporised fuel mixtures; non-chemical additives to motor fuel; fuel gas; fuel oil; diesel oil; fuel alcohol.

Class 35. Retail services relating to motor fuel, diesel, food, prepared snacks, drink, medicine, tobacco, smoker's articles, electric cigarettes, maps, spare parts and accessories for automobiles, toys, games, cut flowers and live plants; loyalty, incentive and bonus program services; all of the above services provided at vehicle service stations.

Class 37. Vehicle service station services; vehicle fuelling services; vehicle battery charging services provided at a vehicle service station; recharging services for electric vehicles provided at a vehicle service station; vehicle maintenance services; vehicle cleaning services; vehicle washing services; vehicle repair services.

Petrogas Group Limited, Block 17 Joyce Way, Parkwest, Dublin 12, Ireland. Address for service is c/o Sipara Sweden AB, Nannavägen 22, Täby, 187 73 Stockholm, Sweden.

## Under Par Covers

**273779** 27 August 2025

Class 18. Umbrellas, Golf Umbrellas.

Niall Brady, Derrygarren, Clonbullogue, Offaly R45KH48, Ireland. Address for service is c/o Niall Brady, Derrygarren, Clonbullogue, Offaly R45KH48, Ireland.

The mark in use is/will be in the colour(s) White

## more power to you

**273780** 22 August 2025

Class 9. Electric-car charger.

David Horgan, 23 St Cronans Ave, Swords, Dublin K67C429, Ireland. Address for service is c/o David Horgan, 23 St Cronans Ave, Swords, Co Dublin K67C429, Ireland.

The mark in use is/will be in the colour(s) Black

## Dylan Bradshaw

**273781** 28 August 2025

Class 44. Beauty salons; Hairdressing salons.

Dylan Bradshaw, Glenbeg, Kilcrouney Lane, Kilcrouney, Wicklow, Ireland. Address for service is c/o Gore & Grimes Solicitors LLP, Three Haddington Buildings, Percy Place, Dublin, Ireland.

## WORKPLUS

**273782** 19 June 2025

- Class 35. Advertising, marketing, and promotional services; brand campaign development and management; development and implementation of marketing strategies; advertising services for promoting apprenticeship and training programs; advertising and publicity relating to apprenticeships; public relations and communications activities relating to apprenticeships; coordination of promotional campaigns relating to apprenticeships; promotion and co-ordination of apprenticeships to educational establishments; employment recruitment services; personnel placement and consultancy; provision of commercial and business contact information relating to apprenticeships; provision of business information relating to apprenticeships via a web site; provision of information relating to apprentice recruitment via a website; business consultancy in the field of workforce development and early career talent; compilation of information into databases relating to employment opportunities and training schemes; business intermediary services relating to the matching of apprentices with businesses; provision of information relating to engagement of suppliers of apprenticeships.
- Class 42. Software as a service (SaaS) featuring software for

managing apprenticeship programmes, connecting candidates with potential employers, and facilitating recruitment workflows; providing temporary use of non-downloadable software for use by employers to receive, review and manage apprenticeship applications; hosting of platforms enabling communication and applicant tracking between apprentices and employer members; application service provider (ASP) services featuring software for candidate shortlisting, interview scheduling, and employer-applicant engagement; platform as a service (PaaS) featuring software for managing apprenticeship opportunities and employer memberships.

Priority Date Claimed: 13 June 2025 United Kingdom

Workplus Apprenticeships Ltd, Ormeau Baths, 18 Ormeau Avenue, Belfast, Northern Ireland BT2 8HS, United Kingdom. Address for service is c/o HGF IP Limited, The Guinness Enterprise Centre (GEC), Taylor's Lane, Dublin D8, Ireland.

## RAYGUN

**273783** 31 January 2025

- Class 9. Computer programs, including operating systems and utilities; computer programs for use in developing other computer programs and components thereof; computer programs



for use in connection with computer networks and global communications networks; computer software, including downloadable computer software and recorded computer software; computer software for infrastructure management; computer software for use in developing other computer software; computer software for use in accessing, manipulating, editing and downloading data from computer networks and global communications networks; user interface programs; computer programs for use in connection with website development and management; computer software for communication between computer processes; computer hardware; magnetic discs and tapes with or without programs or software thereon; and ancillary manuals and documentation sold with the aforesaid goods, as a unit.

- Class 42. Design and development of computer hardware and software; computer services namely providing a website featuring non-downloadable software; providing temporary use of online non-downloadable software; providing online non-downloadable software for developing and improving other computer software, online non-downloadable software for improving software development processes, and online non-downloadable software for software debugging; providing a website featuring online non-downloadable software for developing and improving other computer software, online non-

downloadable software for improving software development processes, and online non-downloadable software for software debugging; providing on-line non-downloadable software for use in customer relationship management; providing a website featuring non-downloadable software for use in customer relationship management; providing a website for use in customer relationship management; software design, namely, improvement of software development processes; software consultancy services; information technology consultancy services; software as a service (SAAS); provision of all the aforesaid services online, via an intranet, the Internet or other computer network, telephone, interactive television, desktop computers, tablets, mobile phones and other mobile communication devices, or by other electronic means.

Raygun Limited, L2, 14 Allen Street, Te Aro, Wellington 6011, New Zealand. Address for service is c/o William Fry LLP, 2 Grand Canal Square, Dublin D02 A342, Ireland.

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**yup bro**

**273784** 14 August 2025

Class 21. Hair brushes.

Class 25. Clothing.

ROBERT MAXWELL, 14 grange view way, clondalkin, dublin d22, Ireland. Address for service is c/o ROBERT MAXWELL, 14 grange view way, clondalkin, dublin d22, Ireland.



**LEOPARDSTOWN**  
Park Hospital

## TaxMind

**273785** 18 August 2025

Class 35. Tax returns (Preparation of -); Preparation of income tax returns; Income tax returns (Preparation of -); Preparation and completion of income tax returns; Accountancy advice relating to the preparation of tax returns; Preparation of tax returns.

Mathews joseph, Apartment 194 Gort NA Coiribe, Headford Road, Galway H91RR74, Ireland. Address for service is c/o Mathews joseph, Apartment 194, Gort Na Coiribe, Headford Road, Galway H91RR74, Ireland.

**273786** 27 August 2025

Class 35. Administrative services for medical referrals; Marketing; Providing commercial and business contact information.

Class 41. Entertainment services; Recreational services for the elderly; Arranging and conducting of entertainment activities.

Class 43. Homes for the elderly [retirement]; Catering services; Catering services for nursing homes; Providing food and drink.

Class 44. Advice relating to the medical needs of elderly people; Nursing homes; Providing medical information in the field of geriatrics; Geriatric nursing; Convalescent homes; Arranging of accommodation in convalescent homes; Convalescent home services; Nursing services; Nursing home services; Provision of nursing care; Respite care services in the nature of home nursing aid; Medical and healthcare services; Hospice services.

Leopardstown Park Hospital, Foxrock, Dublin 18  
D18XH70, Ireland. Address for service is c/o Jeremy  
Erwin, Hayes solicitors LLP, Lavery House,  
Earlsfort Terrace, Dublin D02 T625, Ireland.

## Beanhive

**273787** 28 August 2025

- Class 30. Coffee; Coffee beverages;  
Coffee beans; Tea; Tea  
beverages; Sandwiches;  
Toasted sandwiches; Wrap  
sandwiches; Muffins;  
Sauces; Chocolate sauces;  
Pastries; Coffee, teas and  
cocoa and substitutes  
therefor.
- Class 35. Retail services relating to  
food; Retail services via  
global computer networks  
related to foodstuffs; Retail  
services in relation to cups  
and glasses; Wholesale  
services in relation to baked  
goods.
- Class 43. Coffee shops; Café services;  
Food preparation services;  
Food and drink preparation  
services; Take away food  
services; Catering for the  
provision of food and  
beverages.

Beanhive Limited, 26 Dawson Street, Dublin 2  
D02FY28, Ireland. Address for service is c/o  
Beanhive Limited, 26 Dawson Street, Dublin 2  
D02FY28, Ireland.

## body•space

**273788** 27 August 2025

- Class 9. Mobile apps; Computer  
hardware.
- Class 41. Education services; Health  
education.
- Class 42. Information technology  
services; Scientific  
technological services;  
Platform as a Service [PaaS];  
Platform as a service [PaaS]  
featuring software platforms  
for transmission of images,  
audio-visual content, video  
content and messages;  
Software as a service [SaaS].
- Class 44. Consulting services relating  
to health care.
- Class 45. Consulting in the field of  
personal relationships.

Sarah Abail, Apt 4, Allen House, 199-201 Harolds  
Cross Rd, Dublin 6W D6WEH63, Ireland  
Laila Abail, Apt 4 Allen House 199-201 Harolds Cross  
Rd, Dublin 6W D6WEH63, Ireland. Address for  
service is c/o Sarah Abail & Laila Abail c/o Sarah  
Abail, Apt 4 Allen House 199-201 Harolds Cross  
Rd, Dublin 6W D6WEH63, Ireland.

The mark in use is/will be in the colour(s) black

## Clockwork Productions

**273789** 28 August 2025

- Class 41. Film editing; Editing  
(Videotape -); Videotape  
editing; Video editing; Video

production; Video  
production services.

Vincent O'Neill, 62 Pleasants Place, Dublin D08  
N6DN, Ireland. Address for service is c/o Vincent O  
Neill, Daintree Buidling, 62 Pleasants Place, Dublin  
D08 N6DN, Ireland.



**273790** 10 June 2025

Class 41. Entertainment, education and  
instruction services; Summer  
camps [entertainment and  
education].

Georgia Poole, 3 Newbury Avenue, Clonsaugh,  
Dublin D17 X004, Ireland. Address for service is c/o  
Georgia Poole, 3 Newbury Avenue, Clonsaugh,  
Dublin D17 X004, Ireland.



Application is for a Series of 2 Trade Marks.

**273791** 13 August 2025

Class 9. Computer Software for data  
storage, data management,  
data organisation, data  
processing, data transmission  
and data reporting;  
application software for  
cloud computing services;  
computer programmes for  
data processing; computer  
programs, namely  
downloadable cloud-based  
software; computer programs  
for accessing and using the  
internet; computer programs  
for accessing, browsing and  
searching online databases;  
computer programs for  
document management;  
cloud-based computer  
software; computer software  
platforms for providing  
access to databases; data  
management software; data  
processing software.

Class 38. Electronic transmission of  
data (Services for the -);  
operating of electronic  
communications systems;  
providing access to platforms  
and portals on the Internet;  
telecommunication services  
provided via platforms and  
portals on the Internet and  
other media; transmission of  
data by means of the  
Internet; information,  
advisory and consultancy  
services in relation to the  
aforementioned.

Class 42. Software as a service [SaaS]  
relating to data storage, data  
management, data

organisation, data processing, data transmission and data reporting; application service provider [ASP] services; creating, maintaining, and updating computer software; hosting of platforms on the Internet; rental of software; provision of on-line support services for computer program users; software development services; updating and maintenance of computer software and programs; providing non-downloadable software on data networks; providing temporary use of non-downloadable computer programs relating to data storage, data management, data organisation, data processing, data transmission and data reporting; providing temporary use of non-downloadable cloud-based software relating to data storage, data management, data organisation, data processing, data transmission and data reporting; programming of software; hosting of web portals; hosting of digital content, data, files and information; hosting computer software for others; information, advisory and consultancy services in relation to the aforementioned.

Priority Date Claimed: 20 February 2025 United Kingdom

Claimable Limited, 147A High Street, Waltham Cross EN8 7AP, United Kingdom. Address for service is c/o TOMKINS & CO., 5 Dartmouth Road, Dublin 6, Ireland.



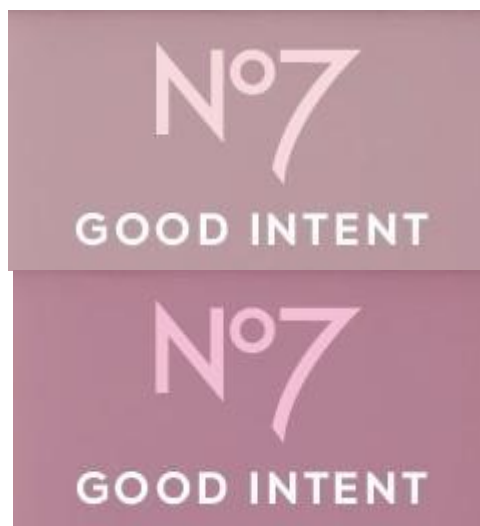
Application is for a Series of 4 Trade Marks.

**273792** 08 August 2025

Class 3. Cosmetics; cosmetic preparations for skin care; non-medicated skin care preparations; non-medicated toiletry preparations; non-medicated skin cleansers, soaps, moisturisers, peels, toners, lotions, creams, masks, serums, balms and gels; cosmetic pads; impregnated cleaning pads and exfoliating pads impregnated with cosmetics.

Priority Date Claimed: 10 February 2025 United Kingdom

The Boots Company PLC, Nottingham, Nottinghamshire NG2 3AA, United Kingdom, Nott NG90 1BS, United Kingdom. Address for service is c/o Barker Brettell Sweden AB, Kungsboplan 3, 112 27 Stockholm, Sweden.



Application is for a Series of 6 Trade Marks.

**273793** 08 August 2025

Class 3. Cosmetics; cosmetic preparations for skin care; non-medicated skin care preparations; non-medicated toiletry preparations; non-medicated skin cleansers, soaps, moisturisers, peels, toners, lotions, creams, masks, serums, balms and gels; cosmetic pads; impregnated cleaning pads and exfoliating pads impregnated with cosmetics.

Priority Date Claimed: 10 February 2025 United Kingdom

The Boots Company PLC, Nottingham, Nottinghamshire NG2 3AA, United Kingdom. Address for service is c/o Barker Brettell Sweden AB, Kungsboplan 3, 112 27 Stockholm, Sweden.

## Opposition(s) under Section 43 of the 1996 Act

272995 Serosep Ltd. Opposition filed 18  
December 2025

## Application(s) Withdrawn after Advertisement under the 1996 Act

272724 Muhammad Waseem  
273377 OLUWAFEMI AYENI

## Application(s) deemed to be Withdrawn under Section 45(2) of the 1996 Act

272320 Kevin Traynor  
272321 Kevin Traynor  
272322 Kevin Traynor  
272323 Kevin Traynor  
272324 Kevin Traynor  
272330 Kevin Traynor  
272331 Shadi Al Tourkman  
272336 Bibin G Mani  
272337 Sonnie Andrew Henry  
272338 Sonnie Andrew Henry  
272339 Sonnie Andrew Henry  
272342 David Deady  
272345 Kevin Traynor  
272346 James Woods  
272347 JASON STURDY  
272355 CÚRAM NATURAL LIMITED  
272356 Luke Wilders  
Lyndsey Wilders  
272363 Rory O Leary  
272364 Breast Cancer Ireland  
272376 Joshim Uddin  
272381 David Penny  
272382 Aiden Byrne  
272387 FVH International Ltd.  
272389 SANDEEP PHILIP  
272393 Weng In Cheang  
272404 GP Tech Vision Limited  
272408 Shane Barry  
272443 Carla Quinn  
272463 Aivaras Gedzevicius  
272464 DENZIL LACEY  
272465 DENZIL LACEY  
272480 Holden Guardian Holding Co  
272484 Queer Hawk Ltd.  
272485 Amer Nejma

272489 DENZIL LACEY  
272496 Colm Bodkin

## Trade Marks Registered under the 1996 Act

272551 (2543) Cl. 25. Norman Murphy  
272754 (2547) Cl. 35. Edward Murray  
272767 (2547) Cl. 25. Catherine Hearn  
272780 (2547) Cl. 32. Veaceslav Marsejnii  
272785 (2547) Cl. 7 8 9 11 18 21 22 25 32 35 41  
42. Tanyan Technology Limited  
272791 (2547) Cl. 32. Brian McGann  
272807 (2547) Cl. 25. Calucate Clothing Ltd  
272823 (2548) Cl. 14 18. Debora Tobin  
272831 (2548) Cl. 41. Damian Butler  
272841 (2548) Cl. 9. DEM Machines Ltd  
272844 (2548) Cl. 25. Ryan Hollins  
272845 (2548) Cl. 42. EventMedConnect  
Limited  
272864 (2548) Cl. 9 16. Eoin O'Sullivan  
272867 (2548) Cl. 3 21. CARRIEDO LIMITED  
272874 (2548) Cl. 16 44. Peace Inside Ireland  
Ltd  
272875 (2548) Cl. 16 44 45. Peace Inside Ireland  
Ltd.  
272879 (2548) Cl. 25. Ryan Doolin  
272925 (2549) Cl. 10. ARMSTRONG  
MEDICAL LIMITED  
272994 (2551) Cl. 36. Erova Energy Limited  
272996 (2551) Cl. 8. Tweezerman UK Ltd  
272999 (2551) Cl. 41. Kalan Guillou  
273001 (2551) Cl. 6 37 40. Ciaran Kerr & Kevin  
Jennings  
273007 (2551) Cl. 6 9 20 22 37 39 40. WM  
FITZGERALD SKIPHIRE LIMITED  
273008 (2551) Cl. 43. Newpark Childcare  
Limited  
273012 (2551) Cl. 12 18 28. KUMA BIKES  
LIMITED  
273017 (2551) Cl. 7 8 9. TERENCE  
MCFADDEN  
273018 (2551) Cl. 41. Aoife McElwain  
273025 (2551) Cl. 9. TECNO TELECOM (HK)  
LIMITED  
273026 (2551) Cl. 9 14 25 35 42. Peter Marriott  
273027 (2551) Cl. 29 30. Dairy Consumer Foods  
(Ireland) Limited  
273028 (2551) Cl. 36. Chill Insurance Limited  
273031 (2551) Cl. 29 30. Timothy Marc David  
Harris  
273032 (2551) Cl. 29. Société des Produits  
Nestlé S.A.  
273036 (2551) Cl. 41 44. Alina Chornodub  
273039 (2551) Cl. 29 30. Dairy Consumer Foods  
(Ireland) Limited

|               |                                                                |               |                                                        |
|---------------|----------------------------------------------------------------|---------------|--------------------------------------------------------|
| <b>273040</b> | (2551) Cl. 29 30. Dairy Consumer Foods (Ireland) Limited       | <b>200368</b> | Cl. 41. TWENTIETH CENTURY FOX FILM CORPORATION         |
| <b>273041</b> | (2551) Cl. 29 30. Dairy Consumer Foods (Ireland) Limited       | <b>200369</b> | Cl. 41. TWENTIETH CENTURY FOX FILM CORPORATION         |
| <b>273042</b> | (2551) Cl. 25. Micheal Mc Donnell                              | <b>200396</b> | Cl. 37. COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN |
| <b>273049</b> | (2551) Cl. 29 30. ITC Limited                                  | <b>200402</b> | Cl. 41. VIACOM INTERNATIONAL INC.                      |
| <b>273053</b> | (2551) Cl. 4 6 11 21 35. ECOFUEL STORE IRELAND LIMITED         | <b>200424</b> | Cl. 41. CBS Studios Inc.                               |
| <b>273054</b> | (2551) Cl. 28 35 37 41 42 43 44. Edward Conroy                 | <b>200443</b> | Cl. 42. PIONEER HI-BRED INTERNATIONAL, INC.            |
| <b>273055</b> | (2551) Cl. 19 37. MICROSTRAIN LIMITED                          | <b>200555</b> | Cl. 42. PIONEER HI-BRED INTERNATIONAL, INC.            |
| <b>273059</b> | (2551) Cl. 1 9 29 39. Oliveritas Limited                       | <b>200676</b> | Cl. 41. Fox Media LLC                                  |
| <b>273060</b> | (2551) Cl. 45. Sáimhín Só Ceremonies                           | <b>201147</b> | Cl. 41. TORAND PRODUCTIONS, INC.                       |
| <b>273062</b> | (2551) Cl. 33. Mark Leen                                       | <b>201314</b> | Cl. 38, Cl. 41. VIVA Media GmbH                        |
| <b>273063</b> | (2551) Cl. 5. Newlife Transport Ltd                            | <b>201449</b> | Cl. 35, Cl. 38, Cl. 41, Cl. 42. VIVA Media GmbH        |
| <b>273065</b> | (2551) Cl. 31. Aldi Stores (Ireland) Limited                   | <b>201558</b> | Cl. 38, Cl. 41. VIACOM INTERNATIONAL INC.              |
| <b>273067</b> | (2551) Cl. 25 32 35 40 41 43. Boundary Brewing Cooperative Ltd | <b>201677</b> | Cl. 42. EXP Topco, LLC                                 |
| <b>273071</b> | (2551) Cl. 11 30. David Reichental                             | <b>201758</b> | Cl. 42. McDONALD'S INTERNATIONAL PROPERTY COMPANY LTD. |
| <b>273072</b> | (2551) Cl. 30. Unilever IP Holdings B.V.                       | <b>201890</b> | Cl. 41, Cl. 42. Havana Club Holding, S.A.              |
| <b>273077</b> | (2551) Cl. 6 19. Wood Innovations Limited                      | <b>202034</b> | Cl. 42. McDONALD'S INTERNATIONAL PROPERTY COMPANY LTD. |

### Renewal of Registrations Under Section 48 of the 1996 Act

|               |                                                                  |               |                                                        |
|---------------|------------------------------------------------------------------|---------------|--------------------------------------------------------|
| <b>49738</b>  | Cl. 12. COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN           | <b>202256</b> | Cl. 3. Kenvue Inc.                                     |
| <b>66831</b>  | Cl. 29. HANNA-BARBERA PRODUCTIONS, INC.                          | <b>202345</b> | Cl. 42. McDONALD'S INTERNATIONAL PROPERTY COMPANY LTD. |
| <b>67324</b>  | Cl. 5. Ascensia Diabetes Care Holdings AG                        | <b>202346</b> | Cl. 42. McDONALD'S INTERNATIONAL PROPERTY COMPANY LTD. |
| <b>77634</b>  | Cl. 31. Pet-Ag, Inc.                                             | <b>202347</b> | Cl. 42. McDONALD'S INTERNATIONAL PROPERTY COMPANY LTD. |
| <b>77670</b>  | Cl. 34. IMPERIAL TOBACCO LIMITED                                 | <b>202348</b> | Cl. 42. McDONALD'S INTERNATIONAL PROPERTY COMPANY LTD. |
| <b>78228</b>  | Cl. 4. EXXON MOBIL CORPORATION                                   | <b>202465</b> | Cl. 35. Eason Operations Limited                       |
| <b>78727</b>  | Cl. 3. carenow GmbH                                              | <b>202466</b> | Cl. 42. Eason Operations Limited                       |
| <b>113851</b> | Cl. 28. Peloton Interactive, Inc.                                | <b>204903</b> | Cl. 35. INTER IKEA SYSTEMS B.V.                        |
| <b>114254</b> | Cl. 33. Taittinger Compagnie Commerciale et Viticole Champenoise | <b>204904</b> | Cl. 42. INTER IKEA SYSTEMS B.V.                        |
| <b>115886</b> | Cl. 31. East Coast Viners (Holdings) Limited                     | <b>205202</b> | Cl. 29. Unilever Global IP Limited                     |
| <b>115951</b> | Cl. 3. ALBERTO-CULVER INTERNATIONAL, INC.                        | <b>205203</b> | Cl. 32. Unilever Global IP Limited                     |
| <b>117072</b> | Cl. 12. FORD MOTOR COMPANY                                       | <b>205825</b> | Cl. 29. Unilever Global IP Limited                     |
| <b>119246</b> | Cl. 32. RANI REFRESHMENTS FZCO                                   | <b>205826</b> | Cl. 32. Unilever Global IP Limited                     |
| <b>200118</b> | Cl. 37. EXXON MOBIL CORPORATION                                  | <b>212085</b> | Cl. 5. Kenvue Inc.                                     |
| <b>200233</b> | Cl. 42. Checkers Drive-In Restaurants, Inc.                      | <b>212086</b> | Cl. 5. Kenvue Inc.                                     |
| <b>200367</b> | Cl. 41. TWENTIETH CENTURY FOX FILM CORPORATION                   | <b>224658</b> | Cl. 17. Owens Corning Intellectual Capital, LLC        |
|               |                                                                  | <b>225739</b> | Cl. 3. Kenvue Inc.                                     |



|               |                                                                                                                                                               |               |                                                                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------|
| <b>226372</b> | Cl. 35, Cl. 36, Cl. 37, Cl. 39, Cl. 41, Cl. 42. smart Automobile Co., Ltd                                                                                     | <b>247896</b> | Cl. 7, Cl. 9. "VIC. VAN ROMPUY" OF IN 'T KORT "VARO", NAAMLOZE VENNOOTSCHAP   |
| <b>232558</b> | Cl. 5, Cl. 10. LifeScan IP Holdings LLC                                                                                                                       | <b>253323</b> | Cl. 41. CHQ DUBLIN LIMITED                                                    |
| <b>233577</b> | Cl. 1, Cl. 5. Bayer Intellectual Property GmbH                                                                                                                | <b>254460</b> | Cl. 7, Cl. 11. Candy Hoover Group Srl                                         |
| <b>233583</b> | Cl. 9, Cl. 14, Cl. 16, Cl. 18, Cl. 21, Cl. 24, Cl. 25, Cl. 28, Cl. 41. Iontaobhas Corparáideach Chumann Lúthchleas Gael Cuideachta Faoi Theorainn Ráthaíochta | <b>254484</b> | Cl. 9, Cl. 42. PROGRESS SOFTWARE CORPORATION                                  |
| <b>233629</b> | Cl. 5. BAYER AKTIENGESELLSCHAFT                                                                                                                               | <b>254555</b> | Cl. 25, Cl. 28, Cl. 35, Cl. 39, Cl. 41. Kate Hyde                             |
| <b>233646</b> | Cl. 14. DECLAN GANLEY                                                                                                                                         | <b>254559</b> | Cl. 19. Forterra Building Products Limited                                    |
| <b>233670</b> | Cl. 5, Cl. 10. Ascensia Diabetes Care Holdings AG                                                                                                             | <b>254566</b> | Cl. 6, Cl. 9, Cl. 19. Panabrand Limited                                       |
| <b>233766</b> | Cl. 30, Cl. 32, Cl. 43. ekaterra Group IP Holdings B.V.                                                                                                       | <b>254576</b> | Cl. 41, Cl. 44. CSL Behring GmbH                                              |
| <b>234108</b> | Cl. 5. Bayer Consumer Care AG                                                                                                                                 | <b>254612</b> | Cl. 9, Cl. 42. THE NATIONAL INSTITUTE FOR BIOPROCESSING RESEARCH AND TRAINING |
| <b>234288</b> | Cl. 41. PATRICK McNUTT                                                                                                                                        | <b>255098</b> | Cl. 9, Cl. 24, Cl. 25. Aldi Stores (Ireland) Limited                          |
| <b>234987</b> | Cl. 5. TEOFARMA S.R.L.                                                                                                                                        | <b>255463</b> | Cl. 35, Cl. 44. Mental Perk Psychological Services                            |
| <b>235061</b> | Cl. 9. HUAWEI TECHNOLOGIES CO., LTD                                                                                                                           | <b>255579</b> | Cl. 36. Shop Direct Home Shopping Limited                                     |
| <b>239441</b> | Cl. 16, Cl. 39. Railtours Ireland First Class Limited                                                                                                         | <b>255580</b> | Cl. 36. Shop Direct Home Shopping Limited                                     |
| <b>239605</b> | Cl. 16, Cl. 28, Cl. 35, Cl. 36, Cl. 39, Cl. 40, Cl. 41, Cl. 42, Cl. 44, Cl. 45. THE REHAB GROUP                                                               | <b>255581</b> | Cl. 36. Shop Direct Home Shopping Limited                                     |
| <b>240462</b> | Cl. 16, Cl. 28, Cl. 35, Cl. 36, Cl. 39, Cl. 40, Cl. 41, Cl. 42, Cl. 44, Cl. 45. THE REHAB GROUP                                                               | <b>255582</b> | Cl. 36. Shop Direct Home Shopping Limited                                     |
| <b>240469</b> | Cl. 16, Cl. 28, Cl. 35, Cl. 36, Cl. 39, Cl. 40, Cl. 41, Cl. 42, Cl. 44, Cl. 45. THE REHAB GROUP                                                               |               |                                                                               |

## International Registrations under the Madrid Protocol seeking protection in the State.

Any person desiring to oppose the conferring of protection in the State to the undermentioned marks may, within three months from the date of this Journal give notice to the Controller, in accordance with the provisions of Rule 18.

It should be noted that under the provisions of Rule 63(2) no extension of the opposition period is allowed for lodging opposition under Rule 18.

It is desirable before lodging formal opposition that a communication should be addressed to the holder affording him an opportunity to withdraw his application for protection of the International Registration in the State. In this way cost of opposition proceedings may be avoided.

### MULTI JET

**1867302** 24/03/2025

Class 9. Checking (supervision), control and regulating apparatus and instruments for fuel burners; electronic control apparatus, units and systems for fuel burners; apparatus, instruments, software and computer hardware for monitoring, operating and remote controlling of fuel burners; all the aforesaid goods only as parts and fittings for asphalt mixing machines and asphalt mixing installations, included in this class.

Class 11. Burners; oil burners; gas burners; coaldust burners; tar burners; hydrogen burners; all the aforesaid goods only as parts and fittings for asphalt mixing machines and asphalt mixing installations, included in this class.

Priority Date Claimed: 21 November 2024 Germany  
Benninghoven Zweigniederlassung der Wirtgen Mineral Technologies GmbH, Benninghovenstraße 1, 54516 Wittlich, Germany

Representative: RUTTENSBERGER  
LACHNIT TROSSIN  
GOMOLL PATENT- UND  
RECHTSANWÄLTE  
PARTNERSCHAFTSGESELL  
SCHAFT MBB, Arnulfstraße  
58, 80335 München, Germany

Address for  
service: FRKelly, Waterways House,  
Grand Canal Quay, Dublin D02  
PD39, Ireland



**1877334** 17/06/2025

Class 6. Shipping containers of metal.

Class 39. Airline and shipping services; arranging for the shipping of cargo; container leasing for the shipping industry; freight [shipping of goods]; freight shipping; international ocean freight shipping services; ocean shipping; rental of shipping containers; shipping agency services; shipping of cargo; shipping of goods;

shipping of oversized cargo;  
shipping services; arranging  
for the shipping of goods;  
shipping of freight.

Priority Date Claimed: 06 May 2025 Singapore

SEA LEAD SHIPPING PTE. LTD., 78 SHENTON  
WAY, #10-01, SINGAPORE 079120, Singapore

Colour Claimed: Dark Blue (HEX #113D6C,  
R17, G61, B108, C100, M82,  
Y32, K18).

## **Cancellations effected for the following goods/services under the Madrid protocol**

**1708453** BILLY WALTERS  
Cancellation in respect of all goods  
and services registered at WIPO on  
22/12/2025

## **Changes/Corrections in the International Register**

**1778415** Advertised as protected in Journal No:  
2538 on 26/03/2025.  
Correction of Goods and Services for  
International Trade Mark No. 1778415  
recorded in the International Register on  
25/12/2025.  
Correction concerns Class 35 and is now  
amended to :  
Bill-posting; distribution of samples;  
administrative processing of purchase  
orders; retail on-line ordering services in  
relation to clothes, footwear, cosmetics,  
bags and handbags, jewelry also  
accessible by telephone, facsimile and  
mail order; on-line wholesale and retail  
store services in relation to clothes,  
footwear, cosmetics, bags and handbags,  
jewelry; wholesale store services in  
relation to clothes, footwear, cosmetics,  
bags and handbags, jewelry; retail store  
services in relation to clothes, footwear,  
cosmetics, jewelry; retail store services  
in relation to jewelry; conducting an on-

line trade show exhibition, in the field of  
clothing; retail services of clothing via  
boutiques; advertising and publicity  
services, namely, promoting the goods,  
services, brand identity and commercial  
information and news of third parties  
through print medium and on-line  
medium; organising exhibitions for  
commercial or advertising purposes;  
retail store services in relation to  
clothing; computerized on-line ordering  
services in the field of apparel;  
organization of fashion shows for  
promotional purposes.

**1885224** Advertised in Journal No. 2558 on  
31/12/2025. Limitation received from  
the International Bureau amending  
classes 9,11,37 and 42 as follows:  
Limited to:  
09 Computers; computer hardware;  
internal cooling fans for computers;  
none of the foregoing for use  
in connection with printers, printing  
equipment, coding or marking machines,  
or industrial cameras  
integrated into printers, printing  
equipment, coding or marking machines,  
or industrial cameras for  
integration into printers, printing  
equipment, coding or marking machines.  
11 Cooling appliances and installations;  
none of the foregoing for use in  
connection with printers, printing  
equipment, coding or marking machines,  
or industrial cameras integrated into  
printers, printing  
equipment, coding or marking machines,  
or industrial cameras for integration into  
printers, printing  
equipment, coding or marking machines.  
37 Installation, maintenance and repair  
of computer hardware; information  
technology consultancy relating  
to installation, maintenance and repair of  
computer hardware; none of the  
foregoing for use in connection  
with printers, printing equipment,  
coding or marking machines, or  
industrial cameras integrated into  
printers, printing equipment, coding or  
marking machines, or industrial cameras  
for integration into  
printers, printing equipment, coding or  
marking machines.

42 Development of computer platforms;  
computer system design; consultancy in  
the design and  
development of computer hardware;  
design of prototypes; none of the  
foregoing for use in connection  
with printers, printing equipment,  
coding or marking machines, or  
industrial cameras integrated into  
printers, printing equipment, coding or  
marking machines, or industrial cameras  
for integration into  
printers, printing equipment, coding or  
marking machines

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