

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT8413849

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
APPLIED MOLECULAR TRANSPORT INC.	11/27/2023

RECEIVING PARTY DATA

Name:	THORNHILL THERAPEUTICS, INC.
Street Address:	548 MARKET STREET #69652
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94104

PROPERTY NUMBERS Total: 79

Property Type	Number
Application Number:	61403394
Application Number:	14733940
Application Number:	14733946
Application Number:	15837256
Application Number:	16151533
Application Number:	16414671
Application Number:	16414686
Application Number:	17004686
Application Number:	17558418
Application Number:	18361724
Application Number:	15616140
Application Number:	13822435
Application Number:	61990054
Application Number:	16207611
Application Number:	16207637
Application Number:	16207655
Application Number:	16220923
Application Number:	16997781
Application Number:	17684619
Application Number:	18131560

PATENT

Property Type	Number
Application Number:	15309177
Application Number:	62640168
Application Number:	16779350
Application Number:	17015011
Application Number:	17868077
Application Number:	18502473
Application Number:	62640194
Application Number:	62640188
Application Number:	62756889
Application Number:	62888133
Application Number:	62888238
Application Number:	16686671
Application Number:	16902256
Application Number:	17235567
Application Number:	18241744
Application Number:	62816022
Application Number:	62888144
Application Number:	62888237
Application Number:	62986579
Application Number:	63055886
Application Number:	17169390
Application Number:	17169396
Application Number:	17512315
Application Number:	17818905
Application Number:	18331093
Application Number:	17529138
Application Number:	16884456
Application Number:	17129376
Application Number:	18052455
Application Number:	17709325
Application Number:	62888400
Application Number:	62899064
Application Number:	63033180
Application Number:	62888282
Application Number:	62935615
Application Number:	63021029
Application Number:	63033151
Application Number:	17673603

Property Type	Number
Application Number:	62887933
Application Number:	62887963
Application Number:	62898934
Application Number:	62971126
Application Number:	62898709
Application Number:	62898729
Application Number:	62939495
Application Number:	62970627
Application Number:	63020996
Application Number:	63033077
Application Number:	62898899
Application Number:	63187897
Application Number:	62986557
Application Number:	62968841
Application Number:	63150078
Application Number:	18450289
Application Number:	63150080
Application Number:	18450290
Application Number:	63301830
Application Number:	63328869
Application Number:	63448971

CORRESPONDENCE DATA

Fax Number: (650)493-6811

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 650-493-9300

Email: CEHUI@WSGR.COM

Correspondent Name: WILSON SONSINI GOODRICH & ROSATI

Address Line 1: 650 PAGE MILL ROAD

Address Line 4: PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER:	67482-700
NAME OF SUBMITTER:	CECILIA HUI
SIGNATURE:	/Cecilia Hui/
DATE SIGNED:	01/31/2024

Total Attachments: 17

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Attorney Docket No. 352387-101

CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

Applied Molecular Transport Inc., a Delaware corporation, having a mailing address of c/o The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, DE 19801 (herein referred to as “Assignor”) hereby confirms the assignment, sale, and transfer of rights for good and valuable consideration, the receipt of which is hereby acknowledged, to the invention(s) (the “Invention(s)”) set forth in the patent applications listed on Schedule 1, to Thornhill Therapeutics, Inc., a Delaware corporation, having its principal place of business at 548 Market Street #69652 San Francisco, California 94104-5401 (the “Assignee”), its successors, legal representatives, and assigns. This assignment, sale, and transfer was accomplished by virtue of the Asset Purchase Agreement entered into between Assignor and Assignee, having an Effective Date of November 27, 2023 (hereinafter the “Agreement”).

By virtue of the Agreement and as confirmed by this Confirmatory Assignment, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, Assignor’s right, title, and interest in and to:

- (a) the Invention(s);
- (b) the application(s) for patent and/or registered design, the patent(s), and the registered design(s) identified in Schedule 1;
- (c) the right to file applications for patent and/or registered design of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;
- (d) any application(s) for patent and/or registered design of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent and/or registered design of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent and/or registered design identified in Schedule 1 or any application(s) for patent claiming the Invention(s), including any priority application(s), substitute application(s), division(s), continuation(s), and continuation(s)-in-part;
- (f) the right to recover any and all past, present, and future damages, including provisional or other royalties, for any and all past, present, and future infringements of any application(s) for patent and/or registered design and said patent(s) and/or registered design(s) identified in the preceding paragraphs (b)-(e) and of any and all patent(s) and/or

registered design(s) granted based thereon in the United States and in all other countries;
and

(g) any and all Letters Patent or Patents and/or registered designs, United States or foreign, to be obtained for said Invention(s), said application(s), and said patent(s), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor has covenanted and agreed to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of the Agreement, the Assignor was the sole and lawful owner of Assignor's entire right, title, and interest in and to the Invention(s), said application(s), and said patent(s), and that the same are unencumbered, except, if applicable, by obligation to assign in accordance with the Agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor has also represented that, except for the Agreement, the Assignor has not previously sold, transferred, or encumbered any part of Assignor's right, title, and interest in the Invention(s).

The Assignor has covenanted and agreed to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said Invention(s), said application(s), said registered design(s), said patent(s), any application claiming priority to said application(s), any reissue or extension of said patent(s), and any United States or foreign Letters Patent or Patents for said Invention(s) or said application(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.), is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent or Patents for said Invention(s), without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor waives all rights to challenge the validity of said invention(s) in the United States and its territorial possessions and in all foreign countries and of all Letters

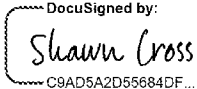
Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention(s) by said application or any continuation, continuation-in-part, divisional, renewal, substitute, or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

The Assignor has requested the Commissioner of Patents to issue any and all aforementioned patents of the United States to the Assignee, as the Assignee of said Invention(s) and the Letters Patent to be issued thereon, for the use and behalf of the Assignee, its successors, legal representatives, and assigns.

Assignor(s) and Assignee(s) understand that electronic signatures are acceptable and that, by signing electronically, signatories agree to the use of electronic signatures.

For and on behalf of ASSIGNOR:

Date: November 27, 2023

By: 
Name: Shawn Cross
Title: Chief Executive Officer
Company: Applied Molecular
Transport Inc.

By signing, I confirm that I am entitled to sign legally binding acts on behalf of Applied Molecular Transport Inc.

My position in Applied Molecular Transport Inc. is: Chief Executive Officer.

For and on behalf of ASSIGNEE:

Date: November 26, 2023

By: Tahir Mahmood

Name: Tahir Mahmood
Title: Chief Executive Officer
Company: Thornhill Therapeutics, Inc.

By signing, I confirm that I am entitled to sign legally binding acts on behalf of Thornhill Therapeutics, Inc.

My position in Thornhill Therapeutics, Inc. is: Chief Executive Officer.

Schedule 1

Jurisdiction	Application Number	Filing Date	Pub. Number	Pub. Date	Patent Number	Issue Date
United States of America	61/403,394	9/15/2010				
United States of America	14/733,940	6/8/2015				
United States of America	14/733,946	6/8/2015				
United States of America	15/837,256	12/11/2017	20180353610	12/13/2018		
United States of America	16/151,533	10/4/2018	US-2020-0030417-A1	1/30/2020	10,799,565	10/13/2020
United States of America	16/414,671	5/16/2019	US-2019-0388550-A1	12/26/2019	10,617,767	4/14/2020
United States of America	16/414,686	5/16/2019	US-2019-0388520-A1	12/26/2019	10,617,741	4/14/2020
United States of America	17/004,686	8/27/2020	US-2021-0220446-A1	7/22/2021	11,246,915	2/15/2022
United States of America	17/558,418	12/21/2021	US-2022-0226445-A1	7/21/2022		
United States of America	18/361,724	7/28/2023				
United States of America	15/616,140	6/7/2017	US 2017-0281736 A1	10/5/2017	10130688	11/20/2018
Patent Cooperation Treaty	PCT/US2011/001602	9/15/2011	2012/036746	3/22/2012		
European Patent Convention	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Germany	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
France	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
United Kingdom	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Belgium	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Switzerland	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Spain	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Ireland	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Italy	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Netherlands	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Sweden	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
Australia	2011302645	9/15/2011	2011302645	5/2/2013	2011302645	6/11/2015
Brazil	112013006088-3	9/15/2011			112013006088-3	6/14/2022
Canada	2,848,656	9/15/2011	2848656	3/22/2012	2,848,656	10/10/2017
China (People's Republic)	201180053563.1	9/15/2011	103249401A	8/14/2013	ZL201180053563.1	1/20/2016
China (People's Republic)	201510983178.7	9/15/2011	105541978A	5/4/2016	ZL2015109831787	12/13/2019
Israel	225171	9/15/2011	225171	11/29/2018	225171	11/29/2018

Jurisdiction	Application Number	Filing Date	Pub. Number	Pub. Date	Patent Number	Issue Date
India	3153/DELNP/2013	9/15/2011			352942	12/3/2020
Japan	2013-529128	9/15/2011	2013-541523	11/14/2013	6133208	4/28/2017
Japan	2016-250581	9/15/2011			6433970	11/16/2018
Korea, Republic of	10-2013-7009377	9/15/2011			101881176	7/17/2018
Mexico	MX/a/2013/002939	9/15/2011	MX/a/2013/002939	10/3/2013	354016	2/7/2018
Russian Federation	2013116447	9/15/2011			RU2593715	8/10/2016
United States of America	13/822,435	3/12/2013	2013-0172229	7/4/2013	9,090,691	7/28/2015
South Africa	201302658	9/15/2011			201302658	6/25/2014
Norway	11825567.8	9/15/2011	2616045	7/24/2013	2616045	10/25/2017
United States of America	61/990,054	5/7/2014				
United States of America	16/207,611	12/3/2018	US-2019-0117742-A1	4/25/2019	10,624,956	4/21/2020
United States of America	16/207,637	12/3/2018	US-2019-0117743-A1	4/25/2019	10,624,957	4/21/2020
United States of America	16/207,655	12/3/2018	US-2019-0117744-A1	4/25/2019	10,786,555	9/29/2020
United States of America	16/220,923	12/14/2018	US-2019-0105375-A1	4/11/2019	10,786,556	9/29/2020
United States of America	16/997,781	8/19/2020	US-2021-0205420-A1	7/8/2021		
United States of America	17/684,619	3/2/2022				
United States of America	18/131,560	4/6/2023				
Patent Cooperation Treaty	PCT/US2015/029795	5/7/2015	WO 2015/171965	11/12/2015		
European Patent Convention	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
European Patent Convention	21199457.9	5/7/2015	3998077	5/18/2022		
Germany	602015073716.4	5/7/2015	3139965	3/15/2017	602015073716.4	9/29/2021
France	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
United Kingdom	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Austria	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Belgium	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Switzerland	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Czech Republic	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Denmark	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Spain	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Finland	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Hungary	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021

Jurisdiction	Application Number	Filing Date	Pub. Number	Pub. Date	Patent Number	Issue Date
Ireland	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Italy	15788688.8	5/7/2015	3139965	3/15/2017	502021000101708	9/29/2021
Luxembourg	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Netherlands	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Portugal	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Sweden	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Slovenia	15788688.8	5/7/2015	3139965	3/15/2017	P-201531758	9/29/2021
Turkey	15788688.8	5/7/2015	3139965	3/15/2017	2021/015665	9/29/2021
Australia	2015255834	5/7/2015	2015255834	12/22/2016	2015255834	9/3/2020
Australia	2020207779	5/7/2015				
Brazil	BR112016025866-5	5/7/2015	BR112016025866	11/16/2016		
Canada	2,948,346	5/7/2015	2,948,346	11/12/2015	2,948,346	6/27/2023
China (People's Republic)	201580036678.8	5/7/2015	CN106470707	3/1/2017		
China (People's Republic)	202311263281.5	5/7/2015				
Israel	248768	5/7/2015	248768	1/31/2017	248768	12/31/2021
Israel	285716	5/7/2015	285716	9/1/2022	285716	12/2/2022
India	201617041645	5/7/2015	201617041645	3/10/2017	416549	1/3/2023
Japan	2017-511547	5/7/2015	2017-519039	7/13/2017	6759188	9/4/2020
Japan	2020-147344	5/7/2015	2021-008468	1/28/2021	7125453	8/16/2022
Korea, Republic of	10-2016-7034104	5/7/2015	20170013893	2/7/2017		
Korea, Republic of	10-2023-7037526	5/7/2015				
Mexico	MX/a/2016/014548	5/7/2015	MX/a/2016/014548	6/27/2017	385898	9/6/2021
Mexico	MX/a/2021/010666	5/7/2015				
Philippines	1-2016-502447	5/7/2015	1-2016-502447	3/6/2017	1-2016-502447	3/2/2022
Philippines	1-2021-551189	5/7/2015	1-2021-551189	3/28/2022		
Russian Federation	2016147734	5/7/2015	2016147734	6/8/2018	2723178	6/9/2020
Russian Federation	2020118518	5/7/2015				
Singapore	11201610183X	5/7/2015	11201610183X	1/27/2017		
Singapore	10201904005U	5/7/2015				
United States of America	15/309,177	11/4/2016	20170151307	6/1/2017	10,624,955	4/21/2020
Norway	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021
Poland	15788688.8	5/7/2015	3139965	3/15/2017	3139965	9/29/2021

Jurisdiction	Application Number	Filing Date	Pub. Number	Pub. Date	Patent Number	Issue Date
United States of America	62/640,168	3/8/2018				
United States of America	16/779,350	1/31/2020				
United States of America	17/015,011	9/8/2020	US-2021-0113704-A1	4/22/2021	11,426,466	8/30/2022
United States of America	17/868,077	7/19/2022	US-2023-0158163-A1	5/25/2023		
United States of America	18/502,473	11/6/2023				
Lithuania	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Latvia	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Eurasian Patent Organization	202092126	3/8/2019	202092126	5/24/2021		
Patent Cooperation Treaty	PCT/US2019/021474	3/8/2019	WO 2019/173787	9/12/2019		

Jurisdiction	Application Number	Filing Date	Pub. Number	Pub. Date	Patent Number	Issue Date
European Patent Convention	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
European Patent Convention	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Germany	19717013.7	3/8/2019	3762009	1/13/2021	602019014869.0	5/11/2022
Germany	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
France	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
France	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
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Austria	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
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Cyprus, Republic of	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Czech Republic	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
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Estonia	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Spain	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Finland	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Finland	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
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Hungary	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Ireland	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Italy	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Italy	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Luxembourg	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Luxembourg	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Netherlands	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Netherlands	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Portugal	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Portugal	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Sweden	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Sweden	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Slovenia	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Slovenia	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
Slovakia	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Turkey	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Australia	2019230230	3/8/2019				
Canada	3,093,386	3/8/2019	3093386	9/12/2019		
China (People's Republic)	201980031164.1	3/8/2019	112105376	12/18/2020		
Israel	277209	3/8/2019				
India	202017043934	3/8/2019	202017043934A	9/24/2021		

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New Zealand	767742	3/8/2019				
Singapore	11202009925P	3/8/2019				
South Africa	2020/06230	3/8/2019				
Hong Kong	62021034625.5	3/8/2019	40044444	9/30/2021	40044444	12/30/2022
Norway	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Poland	19717013.7	3/8/2019	3762009	1/13/2021	3762009	5/11/2022
Malta	22165874.3	3/8/2019	4082558	11/2/2022	4082558	8/23/2023
United States of America	62/640,194	3/8/2018				
United States of America	62/640,188	3/8/2018				
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United States of America	16/686,671	11/18/2019	US-2020-0140511-A1	5/7/2020		
United States of America	16/902,256	6/15/2020	US-2020-0306383-A1	10/1/2020	11,027,020	6/8/2021
United States of America	17/235,567	4/20/2021	US-2021-0338828-A1	11/4/2021		
United States of America	18/241744	9/01/2023				
Eurasian Patent Organization	202191280	11/7/2019	202191280	12/27/2021	043603	6/5/2023
Patent Cooperation Treaty	PCT/US2019/060356	11/7/2019	WO 2020/097394	5/14/2020		
European Patent Convention	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
European Patent Convention	22159495.5	11/7/2019	4083058	11/2/2022		
Germany	19207825.1	11/7/2019	3650037	5/13/2020	602019012084.2	3/2/2022
France	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
United Kingdom	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Austria	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Belgium	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Switzerland	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Cyprus, Republic of	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Czech Republic	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Denmark	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Spain	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Finland	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Greece	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022

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Hungary	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Ireland	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Italy	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Luxembourg	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Netherlands	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Portugal	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Sweden	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Turkey	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Australia	2019377117	11/7/2019				
Brazil	1120210090037	11/7/2019				
Canada	3,119,060	11/7/2019	3119060	5/14/2020		
China (People's Republic)	201980088287.9	11/7/2019	CN113423722A	9/21/2021		
Israel	282987	11/7/2019	282987	10/1/2022	282987	1/2/2023
India	202117024818	11/7/2019	202117024818A	11/12/2021		
Japan	2021-525169	11/7/2019	2022-506990	1/17/2022		
Korea, Republic of	10-2021-7017210	11/7/2019	10-2021-0110294	9/7/2021		
Mexico	MX/a/2021/005346	11/7/2019				
New Zealand	776294	11/7/2019				
Singapore	11202104721R	11/7/2019				
South Africa	2021/03556	11/7/2019				
Taiwan	108140533	11/7/2019	202031678	9/1/2020		
Thailand	2101002647	11/7/2019				
Argentina	P190103265	11/7/2019	P190103265	7/7/2021		
Chile	1209-2021	11/7/2019	43,107	11/19/2021		
Hong Kong	42020019582.4	11/7/2019	40029390	2/19/2021	40029390	10/14/2022
Norway	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Indonesia	P00202104109	11/7/2019				
Poland	19207825.1	11/7/2019	3650037	5/13/2020	3650037	3/2/2022
Colombia	NC2021/0007402	11/7/2019	940	9/30/2021	41365	6/29/2023
United States of America	62/816,022	3/8/2019				
United States of America	62/888,144	8/16/2019				
United States of America	62/888,237	8/16/2019				
United States of America	62/986,579	3/6/2020				
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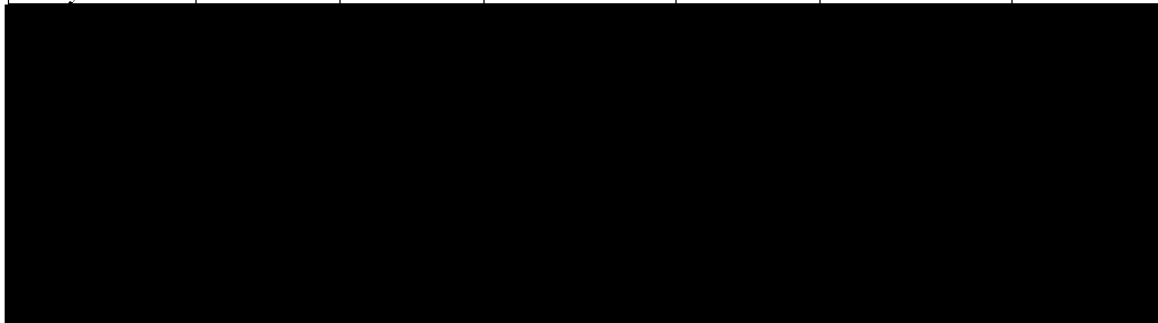
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United States of America	17/512,315	10/27/2021	US-2022-0112259-A1	4/14/2022	11,479,593	10/25/2022
United States of America	17/818,905	8/10/2022				
United States of America	18/331,093	6/7/2023				
United States of America	17/529,138	11/17/2021	US-2022-0089666-A1	3/24/2022	11,466,067	10/11/2022
Vietnam	1-2022-01548	8/14/2020	88538 A	8/25/2022		
Eurasian Patent Organization	202290593	8/14/2020		7/21/2022		
Patent Cooperation Treaty	PCT/US2020/046545	8/14/2020	WO2021/034727	2/25/2021		
European Patent Convention	20854520.2	8/14/2020	3844169	7/7/2021		
Australia	2020331939	8/14/2020				
Brazil	1120220029624	8/14/2020	1120220029624	3/3/2022		
Canada	3,150,859	8/14/2020	3150859	2/25/2021		
China (People's Republic)	202080072808.4	8/14/2020	CN114599665A	6/7/2022		
Israel	290535	8/14/2020				
India	202217013479	8/14/2020	202217013479A	7/1/2022		
Japan	2022-510140	8/14/2020	2022-544624	10/19/2022		
Korea, Republic of	10-2022-7008741	8/14/2020	10-2022-0066056	5/23/2022		
Mexico	MX/a/2022/001975	8/14/2020				
New Zealand	785630	8/14/2020				
Philippines	1-2022-550330	8/14/2020				
Singapore	11202201179T	8/14/2020				
South Africa	2022/02982	8/14/2020				
Taiwan	109127823	8/14/2020	202120521	6/1/2021		
Thailand	2201000969	8/14/2020				
Argentina	P200102328	8/14/2020	AR119787A1	1/12/2022		
Argentina	2022 0100287	8/14/2020	0124866	5/10/2023		
Argentina	20220100589	8/14/2020	20220100589	6/7/2023		
Chile	CL202200376	8/14/2020	CVE 2223206	11/25/2022		

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Malaysia	PI2022000735	8/14/2020				
Indonesia	P00202203290	8/14/2020				
Colombia	NC022/0003000	8/14/2020	967	7/8/2022		
United States of America	16/884,456	5/27/2020	US-2021-0100911-A1	4/8/2021	11,324,833	5/10/2022
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United States of America	18/052,455	11/3/2022				
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Eurasian Patent Organization	202191288	9/11/2019	202191288	10/21/2021		
Patent Cooperation Treaty	PCT/US2019/050708	9/11/2019	WO 2020/096695	5/14/2020		
European Patent Convention	19881649.8	9/11/2019	3826682	6/2/2021		
Australia	2019374703	9/11/2019				
Brazil	1120210090010	9/11/2019	1120210090010	5/18/2021		
Canada	3,119,179	9/11/2019	3119179	5/14/2020		
China (People's Republic)	201980088247.4	9/11/2019	CN113347997A	9/3/2021		
Israel	282986	9/11/2019				
India	202117025013	9/11/2019	202117025013A	11/12/2021		
Japan	2021-525126	9/11/2019	2022-512976	2/7/2022		
Korea, Republic of	10-2021-7017372	9/11/2019	10-2021-0110800	9/9/2021		
Mexico	MX/a/2021/005382	9/11/2019				
New Zealand	776384	9/11/2019				
Singapore	11202104734Y	9/11/2019				
South Africa	2021/03765	9/11/2019				
Taiwan	108132886	9/11/2019	202031297	9/1/2020		
Thailand	2101002648	9/11/2019				
Argentina	P190102583	9/11/2019	0117643	8/18/2021		
Chile	1210-2021	9/11/2019	1210-2021	11/5/2021		
Hong Kong	62021042640.4	9/11/2019	40053295.	2/4/2022		
Indonesia	P00202104111	9/11/2019				
Colombia	NC2021/0007359	9/11/2019	Gazette No. 930	6/21/2021		

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United States of America	63/033,180	6/1/2020				
United States of America	62/888,282	8/16/2019				
United States of America	62/935,615	11/14/2019				
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United States of America	63/033,151	6/1/2020				
United States of America	17/673,603	2/16/2022	US-2022-0275029-A1	9/1/2022		
Vietnam	1-2022-01604	8/14/2020	88543 A	8/25/2022		
Eurasian Patent Organization	202290594	8/14/2020	202290594	8/22/2022		
Patent Cooperation Treaty	PCT/US2020/046547	8/14/2020	WO2021/034728	2/25/2021		
European Patent Convention	20854521.0	8/14/2020	4013395	6/22/2022		
Australia	2020334967	8/14/2020				
Brazil	1120220029756	8/14/2020	1120220029756	3/3/2022		
Canada	3,151,351	8/14/2020	3151351	2/25/2021		
China (People's Republic)	202080072818.8	8/14/2020	114555058	5/27/2022		
Israel	290641	8/14/2020				
India	202217013476	8/14/2020	202217013476A	7/1/2022		
Japan	2022-536910	8/14/2020	2022-544882	10/21/2022		
Korea, Republic of	10-2022-7008746	8/14/2020	10-2022-0066057	5/23/2022		
Mexico	MX/a/2022/001974	8/14/2020				
New Zealand	785688	8/14/2020				
Philippines	1-2022-550368	8/14/2020				
Singapore	11202201379V	8/14/2020				
South Africa	2022/02983	8/14/2020				
Taiwan	109127822	8/14/2020	202120529	6/1/2021		
Thailand	2201000972	8/14/2020				
Argentina	P20 0102318	8/14/2020	Bulletin No. 1198	2/2/2022		
Chile	CL202200377	8/14/2020	CVE2213939	11/11/2022		

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Hong Kong	62022065924.2	8/14/2020	40078086	3/24/2023		
Malaysia	PI2022000841	8/14/2020				
Indonesia	P00202203286	8/14/2020				
Colombia	NC2022/0002984	8/14/2020	2022/0002984	7/8/2022		
United States of America	62/887,963	8/16/2019				
United States of America	62/887,933	8/16/2019				
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United States of America	62/939,495	11/22/2019				
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United States of America	62/986,557	3/6/2020				
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Patent Cooperation Treaty	PCT/US2022/016424	2/15/2022	WO2022177890	8/25/2022		
Taiwan	111105500	2/15/2022	202245842	12/1/2022		
Argentina	20220100298	2/15/2022	20220100298	5/17/2023		
United States of America	63/150,080	2/16/2021				
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Patent Cooperation Treaty	PCT/US2021/065660	12/30/2021	WO2022177644	8/25/2022		
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