

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6599760

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
ABB SCHWEIZ AG	11/18/2020

**RECEIVING PARTY DATA**

<b>Name:</b>	ABB POWER GRIDS SWITZERLAND AG
<b>Street Address:</b>	BRUGGERSTRASSE 72
<b>City:</b>	BADEN
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	5400

**PROPERTY NUMBERS Total: 39**

Property Type	Number
Patent Number:	10658119
Patent Number:	10679787
Patent Number:	10742028
Patent Number:	10809289
Patent Number:	10832859
Patent Number:	10840822
Patent Number:	10854524
Patent Number:	10861642
Patent Number:	10872830
Patent Number:	10900533
Application Number:	16440236
Application Number:	16440258
Application Number:	16499678
Application Number:	16528076
Application Number:	16528791
Application Number:	16533807
Application Number:	16536969
Application Number:	16543764
Application Number:	16558906
Application Number:	16558935

PATENT

Property Type	Number
Application Number:	16593379
Application Number:	16605251
Application Number:	16608733
Application Number:	16612950
Application Number:	16618311
Application Number:	16625404
Application Number:	16626210
Application Number:	16641542
Application Number:	16665560
Application Number:	16673201
Application Number:	16673427
Application Number:	16737356
Application Number:	16773297
Application Number:	17079077
Application Number:	16524134
Application Number:	16564353
Application Number:	16564555
Application Number:	16583983
Application Number:	16690178

**CORRESPONDENCE DATA**

**Fax Number:**

*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.*

**Email:** cramey@sagepat.com

**Correspondent Name:** SAGE PATENT GROUP

**Address Line 1:** PO BOX 30789

**Address Line 4:** RALEIGH, NORTH CAROLINA 27622-0789

<b>ATTORNEY DOCKET NUMBER:</b>	ABB CH TO ABB-PG CH PAT
<b>NAME OF SUBMITTER:</b>	CHERYL F. RAMEY
<b>SIGNATURE:</b>	/Cheryl F. Ramey/
<b>DATE SIGNED:</b>	03/15/2021

**Total Attachments: 28**

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## CONFIRMATORY ASSIGNMENT

This Assignment dated 18. November 2020 is entered into by and between

**ABB Schweiz AG**, a company incorporated under the laws of Switzerland, having its business address at Bruggerstrasse 66, 5400 Baden, Aargau, Switzerland and registered with the Commercial Registry of Canton Aargau under number CHE-101.538.426 (“Assignor”); and

**ABB Power Grids Switzerland AG**, a company incorporated under the laws of Switzerland, having its business address at Bruggerstrasse 72, 5400 Baden, Aargau, Switzerland and registered with the Commercial Registry of Canton Aargau under number CHE-424.543.670 (“Assignee”).

WHEREAS, Assignor and Assignee entered into an agreement dated October 25, 2019 regarding the bulk transfer of Assignor’s Power Grids Business (as defined therein) to Assignee (“BTA”). The BTA provides that the Power Grids Business, including all tangible and intangible assets relating thereto (“Business Assets”), is transferred from Assignor to Assignee by operation of law pursuant to art. 69 et seq. of the Swiss Merger Act and that such transfer became effective upon registration of the BTA in the commercial register on November 1, 2019 (as published in the Swiss Official Gazette of Commerce No. 215 dated November 6, 2019).

WHEREAS, in accordance with OECD commentary 2017, Model Tax Convention Article 12 paragraph 4.3, and based on section 6 of the BTA, Assignee is the beneficial owner of all registered, unregistered, and unregistrable intangible assets which are exclusively or predominantly used by the Power Grids Business, from the effective date of the BTA, and since the effective date of the BTA, Assignee does have the right to use and enjoy the related royalty income unconstrained by contractual or legal obligation to pass on the payment received to another person.

WHEREAS, section 3.1(b)(vi) of the BTA provides that the Power Grid Business comprises, inter alia, all registered, unregistered, and unregistrable intangible assets which are exclusively or predominantly used by the Power Grids Business, certain of which were further specified in Annex 3.7 to the BTA, and section 2(c) of the BTA provides that all parts of ABB’s business other than the Power Grids Business, including, inter alia, all relating assets, remain with ABB.

WHEREAS, section 3.8(a) of the BTA provides that Assignor undertakes subsequently to transfer to the Assignee, without charge and by way of individual transfers, any assets related to the Power Grids Business which are not or not sufficiently specified in the Inventory (as defined in the BTA).

WHEREAS, a set of assets listed in Annex 1 were not listed in the BTA, but have now been agreed between Assignor and Assignee to be further included in the set of Business Assets relating to the BTA, and are thus hereby transferred or confirmed to be transferred by this Assignment.

NOW THEREFORE, Assignor agrees to assign and transfer, and hereby assigns and transfers, and Assignee accepts, for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, to Assignee and its successors Assignor’s entire right, title, and interest in and to the inventions for which the patents, patent applications, and invention disclosures listed in Annex 1 are made (“Patent Rights”), together with any and all

patents or patent applications anywhere worldwide to which any of the Patent Rights directly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to claim priority to and/or from the Patent Rights in any jurisdiction worldwide, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of Assignee's successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

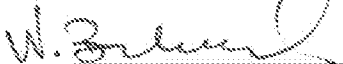
If Assignor has already assigned all of its right, title, and interest in some of the Patent Rights to Assignee by operation of law, employment agreement, or prior assignment, then this Confirmatory Assignment acts to memorialize and further document such assignment and transfer for the purpose of providing a document for recording and registering the change of ownership in various government patent offices and agencies throughout the world.

Each party undertakes to perform all such further acts, execute and deliver all such further documents as may reasonably be requested by the other party in order to give full effect to the aforementioned assignment and transfer of the aforementioned rights from Assignor to Assignee.

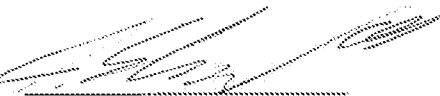
This Assignment is entered into to confirm the effect of the bulk transfer of the Power Grids Business, and it shall be interpreted in line with the provisions of the BTA.

ABB Schweiz AG

ABB Power Grids Switzerland AG

Signature:  <sup>BD</sup>  
Name: NADJA BORNKESSEL  
Title: Chief Operations Controller  
Date: 19. Nov. 2020

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature:   
Name: Alexander Stern  
Title: CEO  
Date: 19.11.20

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

ANNEX I

Patent ID	Invention ID	Patent Reference	Invention Reference	Country	Filing Date	Application Number	Grant Date	Patent Number
84862156	84479247	P180312AU01	P180312	Australia	2018-03-07	2018231407		
84862408	84479251	P180313AU01	P180313	Australia	2018-03-07	2018231406		
84887956	83319535	US-16095-OAKAU01	US-16095-OAK	Australia	2018-04-26	2018261510		
84869739	83326554	US-17020-OADAU01	US-17020-OAD	Australia	2018-03-10	2018231136		
85067541	83317631	E13051A101	E13051	Austria	2013-10-18	13004987.7	2019-12-04	2863236
85258812	83317632	E13052A101	E13052	Austria	2013-09-25	13004654.3		
84726874	83321763	PL-160008BR01	PL-160008	Brazil	2017-08-01	BR112019004789-1		
84855515	83327905	SE-16239BR01	SE-16239	Brazil	2018-02-21	BR112019015538-4		
84878733	83322117	SE-17016BR01	SE-17016	Brazil	2018-03-27	BR112019020128-9		
84849138	83326444	SE-17018BR01	SE-17018	Brazil	2018-05-10	BR112019027155-7		
84891663	83325487	SE-17028BR01	SE-17028	Brazil	2018-04-25	BR112019021200-0		
85090877	83339022	CH-1621701CA01	CH-1621701	Canada	2018-08-23	3,072,721		
84859054	83323305	CN-17020CA01	CN-17020	Canada	2017-04-19	3,053,258		
84909050	83347355	IT-1508801CA01	IT-1508801	Canada	2018-05-30	3,064,979		
84870758	83346148	IT-1608101CA01	IT-1608101	Canada	2017-05-10	3,055,633		
84875789	83324162	IT-17501CA01	IT-17501	Canada	2018-03-07	3055239		
84621241	84453916	P180126CA01	P180126	Canada	2018-11-13	3,023,909		
84855519	83327905	SE-16239CA01	SE-16239	Canada	2018-02-21	3055129		
84872249	83319267	SE-17010CA01	SE-17010	Canada	2018-02-08	3,056,695	2020-04-14	3,056,695
84876018	83322470	SE-17017CA01	SE-17017	Canada	2018-03-21	3,057,900	2020-08-04	3,057,900
84849143	83326444	SE-17018CA01	SE-17018	Canada	2018-05-10	3,063,485	2020-06-09	3,063,485
84669460	83325427	US-16011-OAKCA01	US-16011-OAK	Canada	2017-08-09	3,033,503		
84594674	83325454	US-16020-OAKCA01	US-16020-OAK	Canada	2017-06-27	3,029,460		
84823670	83325747	US-16036-MJSCA01	US-16036-MJS	Canada	2018-01-02	3,048,995		
84713522	83326428	US-16053-OAKCA01	US-16053-OAK	Canada	2017-12-28	3,049,087		
84866708	83319034	US-16065-OAKCA01	US-16065-OAK	Canada	2018-04-24	3,060,438		
84869743	83326554	US-17020-OADCA01	US-17020-OAD	Canada	2018-03-10	3,055,933		
84879798	83339965	CH-1611901CN01	CH-1611901	China	2017-05-08	201780090105.2		

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85090881	83339022	CH-1621701CN01	CH-1621701	China	2018-08-23	201880054928.4		
84855594	83323799	CH-17001CN01	CH-17001	China	2018-01-16	201880018153.5		
84843904	83322693	CH-17006CN01	CH-17006	China	2018-01-31	201880009835.X		
84843981	83326806	CH-17007CN01	CH-17007	China	2018-02-01	201880009810.X		
84859001	83326985	CH-17009CN01	CH-17009	China	2018-01-31	201880010080.5		
84793384	83325207	CH-17017CN01	CH-17017	China	2018-03-02	201880015368.1		
84859131	83325336	CH-17018CN01	CH-17018	China	2018-03-02	201880015739.6		
84858981	83321947	CH-17019CN01	CH-17019	China	2018-03-02	201880015669.4		
84891058	83324398	CH-17051CN01	CH-17051	China	2018-04-30	201880044170.6		
84891153	83326870	CH-17054CN01	CH-17054	China	2018-04-30	201880044227.2		
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84870761	83346148	IT-1608101CN01	IT-1608101	China	2017-05-10	201780090474.1		
84875792	83324162	IT-17501CN01	IT-17501	China	2018-03-07	201880017084.6		
84856787	84336714	P17784CN01	P17784	China	2019-09-05	201910838084.9		
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84906264	84533754	P180669CN01	P180669	China	2019-11-21	201911148359.2		
85231694	84545725	P180741CN01	P180741	China	2020-04-29	202010354563.6		
84878354	84595007	P181245CN01	P181245	China	2019-12-26	201922381690.0		
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84784259	83324027	PL-160011CN01	PL-160011	China	2017-10-04	201780080685.7		
84442642	83323823	SE-12035CN01	SE-12035	China	2016-06-15			
84910639	83347804	SE-1417301CN01	SE-1417301	China	2017-07-05	201780092556.X		
84724682	83324784	SE-16191CN01	SE-16191	China	2017-12-13	201780084256.7		
84853425	83326703	SE-16232CN01	SE-16232	China	2018-02-06	201880009733.8		
84855523	83327905	SE-16239CN01	SE-16239	China	2018-02-21	201880014553.9	2020-08-14	ZL201880014553.9
84856831	83323494	SE-16245CN01	SE-16245	China	2017-03-29	201780087412.5		
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84873532	83320043	SE-17011CN01	SE-17011	China	2018-04-10	201880024437.5		
84878741	83322117	SE-17016CN01	SE-17016	China	2018-03-27	201880022978.4		
84876023	83322470	SE-17017CN01	SE-17017	China	2018-03-21	201880021711.3		
84849148	83326444	SE-17018CN01	SE-17018	China	2018-05-10	201880031794.4		
84874647	83326902	SE-17022CN01	SE-17022	China	2017-05-18	201780090594.1		
84885800	83324194	SE-17026CN01	SE-17026	China	2018-04-27	201880029158.8		
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84910818	83322490	SE-17065CN01	SE-17065	China	2017-05-31	201780091093.5		
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83500563	83319022	US-11046-OAB-CN-PCD	US-11046-OAB	China				
84701830	83322450	US-14065-MJSCN01	US-14065-MJS	China	2015-10-22	201910500840.7		
84513846	83324752	US-15104-OAKCN01	US-15104-OAK	China	2016-11-09	201680078417.7		
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84836597	83322676	US-16024-OAKCN01	US-16024-OAK	China	2017-12-14	201780086141.1		



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84823673	83325747	US-16036-MJSCN01	US-16036-MJS	China	2018-01-02	201880015115.4		
84713525	83326428	US-16053-OAKCN01	US-16053-OAK	China	2017-12-28	201780087626.2		
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84822995	83326981	US-16073-OAKCN01	US-16073-OAK	China	2017-12-06	201780085767.0		
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84545521	83340776	US-1702901CN01	US-1702901	China	2018-08-15	201810928640.7		
84948606	83326933	CH-10020DK01	CH-10020	Denmark	2010-02-19	10154064.9	2020-05-20	2249392
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84912104	83327936	CH-15120DK01	CH-15120	Denmark	2016-09-22	16775557.8	2020-01-08	3353861
84912143	83327016	CH-15121DK01	CH-15121	Denmark	2015-09-25	15186899.9	2020-01-15	3148027
84911360	83327941	CH-15122DK01	CH-15122	Denmark	2016-10-07	16781720.4	2020-01-15	3365903
84905627	83318392	E16131DK01	E16131	Denmark	2018-07-17	18183931.7	2019-10-23	3435388
84911857	83319267	SE-17010DK01	SE-17010	Denmark	2017-03-24	17162855.5	2019-11-13	3379548
85223441	83326610	US-11063-MJSDK01	US-11063-MJS	Denmark	2012-12-19	12813652.0	2020-04-29	2795640
83539727	83321940	US-0716-EG-PCT	US-0716	Egypt				
84722832	83319558	CH-16089EP02	CH-16089	European Patent				
84879801	83339965	CH-1611901EP01	CH-1611901	European Patent	2017-05-08	17909067.5		
85090885	83339022	CH-1621701EP02	CH-1621701	European Patent	2018-08-23	18755487.8		
84859005	83326985	CH-17009EP01	CH-17009	European Patent	2018-01-31	18704184.3		
84891062	83324398	CH-17051EP01	CH-17051	European Patent	2018-04-30	18720271.8	2020-11-18	3613075
84872450	83319600	CH-17301EP01	CH-17301	European Patent	2017-04-05	17904378.1		
84859062	83323305	CN-17020EP01	CN-17020	European Patent	2017-04-19	17906696.4		
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84430970	83326043	IN-16024EP01	IN-16024	European Patent	2017-04-20	17723515.7		
84960387	84332930	P17987EP02	P17987	European Patent	2018-10-30	18795596.8		
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84722109	84662120	P190084EP01	P190084	European Patent	2019-08-14	19191785.5		
84873992	84662133	P190129EP01	P190129	European Patent	2019-08-26	19193614.5		
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84910822	83322490	SE-17065EP01	SE-17065	European Patent	2017-05-31	17729053.3		
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84896506	83327375	10499FR01	10499	France	2008-11-26	13172435.3	2019-10-23	2642501
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85226646	83321959	SE-16107FR01	SE-16107	France	2016-06-28	16734268.2	2020-06-03	3476187
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85223445	83326610	US-11063-MJ5FR01	US-11063-MJ5	France	2012-12-19	12813652.0	2020-04-29	2795640
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84914930	83324576	CH-14138DE01	CH-14138	Germany (Federal Republic of)	2014-12-12	14853174.2	2020-02-19	3230992
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85267681	83325890	CH-16074DE01	CH-16074	Germany (Federal Republic of)	2016-07-22	16744707.7	2020-06-03	3488251
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85211436	83325336	CH-17018DE01	CH-17018	Germany (Federal Republic of)	2018-03-02	18707722.7	2020-05-13	60 2018 004 663.1
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85227192	84539256	P180685DE02	P180685	Germany (Federal Republic of)	2016-11-24	16802020.4	2020-01-01	50 2016 008 287
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852267661	83327224	SE-11340DE01	SE-11340	Germany (Federal Republic of)	2012-06-05	12727355.5	2020-08-19	60 2012 071 855
84898689	83328444	SE-11484DE01	SE-11484	Germany (Federal Republic of)	2013-01-21	13701599.6	2019-12-18	60 2013 064 060
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85213156	83325633	SE-16099DE01	SE-16099	Germany (Federal Republic of)	2016-06-01	16731522.5	2020-08-05	3466226
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83540495	83325578	09350-HK-PCT	09350	Hong Kong				
84785606	83326030	SE-16069HK01	SE-16069	Hong Kong	2019-07-12	19126722.8		
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84862420	84479251	P180313H01	P180313	Israel	2018-03-07	269033		
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84842298	83326974	US-16072-OAKIP01	US-16072-OAK	Japan	2017-12-06	2019-530655		
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84870738	84433890	P180037WO01	P180037	Patent Cooperation Treaty	2019-11-13	PCT/EP2019/081239		
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84528024	83319535	US-16095-OAKWO02	US-16095-OAK	Patent Cooperation Treaty				
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84873547	83320043	SE-17011RU01	SE-17011	Russian Federation	2018-04-10	2019134766	2020-04-28	2720281
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85070406	83325485	CH-17047CH01	CH-17047	Switzerland	2017-04-07	17165582.2	2020-06-03	3385970
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84909676	83328512	SE-11828GB01	SE-11828	United Kingdom	2014-09-05	14765902.3	2019-11-27	3194924
84903562	83327324	SE-11955GB01	SE-11955	United Kingdom	2015-02-04	15704496.7	2019-12-25	3254368
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84843920	83322693	CH-17006US01	CH-17006	United States of America	2018-01-31	16/528,791		
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84859017	83326985	CH-17009US01	CH-17009	United States of America	2018-01-31	16/531,296		
84859147	83325336	CH-17018US01	CH-17018	United States of America	2018-03-02	16/558,906		
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84872454	83319600	CH-17301US01	CH-17301	United States of America	2017-04-05	16/593,379		
84859070	83323305	CN-17020US01	CN-17020	United States of America	2017-04-19	16/536,969		
84714230	83324409	CN-17029US01	CN-17029	United States of America	2017-06-15	16/440,236		
84714353	83319253	CN-17030US01	CN-17030	United States of America	2017-06-15	16/440,258		
84860818	83318570	E15122US01	E15122	United States of America	2019-08-07	16/533,807		
84861091	83318378	E16117US01	E16117	United States of America	2019-10-18	16/656,581	2020-08-11	10,742,028
85108924	83318394	E16133US01	E16133	United States of America	2018-11-07	16/762,608		
84909071	83347355	IT-1508801US01	IT-1508801	United States of America	2018-05-30	16/618,311		
84786507	83325922	IT-16040US01	IT-16040	United States of America	2016-12-21	16/472,446		

Patent ID	Invention ID	Patent Reference	Invention Reference	Country	Filing Date	Application Number	Grant Date	Patent Number
84870779	83346148	IT-1608101US01	IT-1608101	United States of America	2017-05-10	16/605,251		
84875798	83324162	IT-17501US01	IT-17501	United States of America	2018-03-07	16/492,805		
84856798	84336714	P17784US01	P17784	United States of America	2019-08-19	16/543,764		
84841319	84436405	P180112US01	P180112	United States of America	2019-07-31	16/528,076		
84872434	84470295	P180279US01	P180279	United States of America	2019-09-26	16/583,983		
85226283	84448777	P180311US01	P180311	United States of America	2020-04-09	16/844,341		
84862174	84479247	P180312US02	P180312	United States of America	2018-03-07	16/564,353		
84862432	84479251	P180313US02	P180313	United States of America	2018-03-07	16/564,555		
84862013	84512386	P180521US01	P180521	United States of America	2019-07-28	16/524,134		
84906277	84533754	P180669US01	P180669	United States of America	2019-11-21	16/690,178		
84539262	84539256	P180685US01	P180685	United States of America	2016-11-24	15/781,326		
85231705	84545725	P180741US01	P180741	United States of America	2020-04-13	16/846,844		
85182463	84564308	P180965US01	P180965	United States of America	2020-03-17	16/821,060		
84726886	83321763	PL-160008US01	PL-160008	United States of America	2017-08-01	16/299,777		
84784263	83324027	PL-160011US01	PL-160011	United States of America	2017-10-10	16/397,249	2020-11-10	10,832,860
84442648	83323823	SE-12035US01	SE-12035	United States of America	2016-06-15			

Patent ID	Invention ID	Patent Reference	Invention Reference	Country	Filing Date	Application Number	Grant Date	Patent Number
84784637	83325802	SE-16189US01	SE-16189	United States of America	2017-11-17	16/466,079		
84853437	83326703	SE-16232US01	SE-16232	United States of America	2018-02-06	16/480,605		
84855543	83327905	SE-16239US01	SE-16239	United States of America	2018-02-21	16/489,519	2020-10-20	10,809,289
84872267	83319267	SE-17010US01	SE-17010	United States of America	2018-02-08	16/495,025		
84878753	83322117	SE-17016US01	SE-17016	United States of America	2018-03-27	16/499,678		
84876033	83322470	SE-17017US01	SE-17017	United States of America	2018-03-21	16/499,036		
84849163	83326444	SE-17018US01	SE-17018	United States of America	2018-05-10	16/612,950		
84888816	83324194	SE-17026US01	SE-17026	United States of America	2018-04-27	16/608,733		
84891675	83325487	SE-17028US01	SE-17028	United States of America	2018-04-25	16/606,511	2020-05-19	10,658,119
84910715	83326998	SE-17047US01	SE-17047	United States of America	2018-06-19	16/626,210		
84910826	83322490	SE-17065US01	SE-17065	United States of America	2017-05-31	16/615,594		
85031587	83322310	SE-17074US01	SE-17074	United States of America	2017-06-21	16/624,187	2020-11-17	10,840,822
85033600	83323835	SE-17077US01	SE-17077	United States of America	2017-06-21	16/625,404		
84862674	83322450	US-14065-MISUS01	US-14065-MIS	United States of America	2019-08-19	16/544,005	2020-06-09	10,679,787
84862679	83322450	US-14065-MISUS02	US-14065-MIS	United States of America	2019-08-19	16/544,009	2020-11-10	10,832,859
84823682	83325747	US-16036-MISUS01	US-16036-MIS	United States of America	2018-01-02	16/459,035		

Patent ID	Invention ID	Patent Reference	Invention Reference	Country	Filing Date	Application Number	Grant Date	Patent Number
84713537	83326428	US-16053-OAKUS01	US-16053-OAK	United States of America	2017-12-28	16/458,705		
84823228	83326781	US-16068-OAKUS01	US-16068-OAK	United States of America	2017-12-07	16/434,610		
84822774	83319587	US-16074-OAKUS01	US-16074-OAK	United States of America	2017-12-07	16/434,613		
84822545	83322018	US-16075-OAKUS01	US-16075-OAK	United States of America	2017-12-06	16/434,643		
84869763	83326554	US-17020-OADUS01	US-17020-OAD	United States of America	2018-03-10	16/492,542		