

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5484270

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ABB K.K.	03/15/2019
RECEIVING PARTY DATA	
Name:	ABB SCHWEIZ AG
Street Address:	BROWN BOVERI STRASSE 6
City:	BADEN
State/Country:	SWITZERLAND
Postal Code:	5400
PROPERTY NUMBERS Total: 32	
Property Type	Number
Patent Number:	6253800
Patent Number:	6458424
Patent Number:	6533861
Patent Number:	6557781
Patent Number:	6612345
Patent Number:	6666164
Patent Number:	6742722
Patent Number:	6811094
Patent Number:	7546962
Patent Number:	7661610
Patent Number:	7703700
Patent Number:	7837136
Patent Number:	7926443
Patent Number:	8042488
Patent Number:	8042579
Patent Number:	8157190
Patent Number:	8443754
Patent Number:	8720796
Patent Number:	8978580
Patent Number:	8997776

Property Type	Number
Patent Number:	9126817
Patent Number:	9370787
Patent Number:	9399231
Patent Number:	9604233
Patent Number:	9662669
Patent Number:	9687863
Patent Number:	9833797
Application Number:	14402770
Application Number:	14608580
Application Number:	14608681
Application Number:	15318569
Application Number:	15750343

CORRESPONDENCE DATA

Fax Number: (703)816-4100

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: 703-816-4000

Email: bnapear@nixonvan.com, PTOmail@nixonvan.com

Correspondent Name: NIXON & VANDERHYE P.C.

Address Line 1: 901 NORTH GLEBE ROAD

Address Line 2: 11TH FOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER: GPK-227-296

NAME OF SUBMITTER: GORDON P. KLANCNIK

SIGNATURE: /Gordon P. Klancnik/

DATE SIGNED: 04/19/2019

Total Attachments: 7

source=227-296 Assignment ABB K.K. to ABB Schweiz AG#page1.tif

source=227-296 Assignment ABB K.K. to ABB Schweiz AG#page2.tif

source=227-296 Assignment ABB K.K. to ABB Schweiz AG#page3.tif

source=227-296 Assignment ABB K.K. to ABB Schweiz AG#page4.tif

source=227-296 Assignment ABB K.K. to ABB Schweiz AG#page5.tif

source=227-296 Assignment ABB K.K. to ABB Schweiz AG#page6.tif

source=227-296 Assignment ABB K.K. to ABB Schweiz AG#page7.tif

ASSIGNMENT DEED

WHEREAS, **ABB K.K.**, a corporation organized and existing under the laws of Japan, having its principal place of business at 1-1, Osaki 2-chome, Shinagawa-ku, Tokyo 1416022, Japan (hereinafter called the ASSIGNOR), is the proprietor of Patent(s) and Patent Application(s), Design(s) and Design Application(s) identified and listed on Annex A hereto; and

WHEREAS, **ABB Schweiz AG**, a corporation organized and existing under the laws of Switzerland, having its principal place of business at Brown Boveri Strasse 6, 5400 Baden, Switzerland (hereinafter called the ASSIGNEE), is desirous of acquiring the entire right, title and interest of the ASSIGNOR in and to the aforesaid Patent(s) and Patent Application(s), Design(s) and Design Application(s),

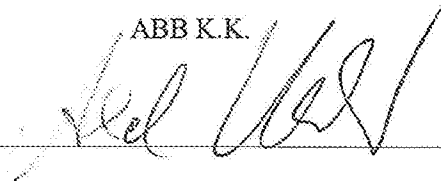
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable considerations, the receipt of which is hereby acknowledged, the ASSIGNOR hereby conveys, sells, assigns and transfers to the ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the aforesaid Patent(s) and Patent Application(s), Design(s) and Design Application(s) and any divisions, continuations, continuations-in-part, requests for continuing examinations, renewals, reissues, reexaminations, patent cooperation treaty equivalents and foreign counterparts and extensions thereof, including all emoluments, advantages, profits and benefits accruing or belonging thereto, and all patents or patent applications, designs or design applications to which any of the aforesaid Patent(s) and Patent Application(s), Design(s) and Design Application(s) directly or indirectly claims priority or for which any of the aforesaid Patent(s) and Patent Application(s), Design(s) and Design Application(s) directly or indirectly forms a basis for priority.

The ASSIGNOR hereby further covenants and agrees that it will communicate to the ASSIGNEE any and all facts known to it respecting the aforesaid Patent(s) and Patent Application(s), Design(s) and Design Application(s), and testify in any legal proceeding, sign all lawful papers, execute and deliver all papers and take any actions that may be necessary or desirable to perfect the title to any of the aforesaid Patent(s) and Patent Application(s), Design(s) and Design Application(s), execute all divisions, continuations, reexaminations, reissues, substitutes and other required applications, and make all rightful oaths and generally do everything possible to aid the ASSIGNEE to obtain and enforce proper patent protection for said Patent(s) and Patent Application(s), Design(s) and Design Application(s) in all countries.

The ASSIGNOR consents to the ASSIGNEE'S proceeding with the aforesaid Patent Application(s) and Design Application(s), if any, in its own name in substitution of the ASSIGNOR and the said ASSIGNOR agrees to do all that may be required to put the foregoing into effect.

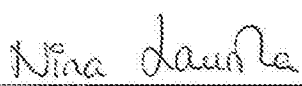
Assignment from ABB K.K. to ABB Schweiz AG

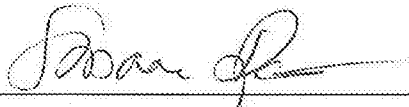
IN WITNESS WHEREOF, the said ASSIGNOR has executed this document on
this 15 day of March, 2019.

ABB K.K.
By: 

Attest: _____

IN WITNESS WHEREOF, the said ASSIGNEE has executed this document on
this 8th day of April, 2019.

ABB Schweiz AG
By: 

Attest: 

Assignment from ABB K.K. to ABB Schweiz AG

Assignment from ABB K.K. to ABB Schweiz AG

ANNEX A

Case Ref.	Country	Filed Date	Application Number	Grant Date	Patent/Registration No.
CN-10137-CN-PCT	China	2005-07-15	200580021317.2	2008-10-01	CN100421810
CN-10139-CN-PCT	China	2006-03-09	200680001606.0	2009-07-15	CN100512975
CN-10141-CN-PCD	China	2006-05-31	200810002038.7	2010-03-24	CN 100594987 C
CN-10141-CN-PCD[1]	China	2006-05-31	200910140017.6	2011-12-21	CN 101590456 B
CN-10141-CN-PCD[2]	China	2006-05-31	200910140016.1	2013-06-05	CN 101653753 B
CN-10141-CN-PCT	China	2006-05-31	200680006886.4	2010-06-23	CN101132861
CN-10142-CN-PCD	China	2006-05-31	200910140254.2	2012-07-18	CN 101797538 B
CN-10142-CN-PCT	China	2006-05-31	200680006885.X	2011-06-01	CN 101132862 B
CN-10151-CN-PCT	China	2007-09-07	200780044098.9	2011-06-15	CN 101541436 B
CN-10158-CN-PCT	China	2008-10-09	200880118370.8	2012-11-21	CN 101878070 B
CN-10161-CN-PCD	China	2009-05-21	201210537547.6	2015-03-11	CN 102989610 B
CN-10161-CN-PCT	China	2009-05-21	200980107649.0	2013-05-22	CN 101959608 B
CN-10165-CN-PCD	China	2010-04-12	201410042260.5		
CN-10165-CN-PCD[2]	China	2010-04-12	201410042268.1		
CN-10165-CN-PCT	China	2010-04-12	201080010057.X	2015-03-25	CN 102341182 B
CN-10167-CN-PCT	China	2011-09-08	201180043815.2	2015-08-19	CN 103118795 B
CN-10180-CN-PCT	China	2012-02-27	201280013045.1	2016-04-27	CN201280013045B
CN-10181-CN-PCT	China	2012-11-14	201280059659.3	2016-05-11	CN201280059659B
CN-10182-CN-PCT	China	2013-01-17	201380004049.8	2016-06-15	CN201380004049B
CN-10183-CN-PCT	China	2013-03-11	201380003044.3	2016-04-06	CN201380003044B
CN-10184-CN-PCT	China	2013-05-15	201380029451.1	2016-08-24	CN201380029451B
CN-10185-CN-PCT	China	2013-05-15	201380029507.3	2018-05-04	CN201380029507B
CN-10189-CN-PCT	China	2014-04-15	201480009645.X	2017-02-22	CN201480009645B
	China	2015-10-30	201480024693.6	2017-04-26	CN201480024693B
	China	2016-12-16	201680001757.X		
	China	2017-02-15	201780003521.4		
CN-10111-EP-EPT	EPO	1999-12-09	99959729.7	2008-10-08	EP1057540
CN-10113-EP-EPT	EPO	1999-12-09	99959727.1	2007-06-20	EP1057538
CN-10117-EP-EPT	EPO	2000-07-12	00944411.8	2008-05-21	EP1114677
CN-10122-EP-EPT	EPO	2001-04-19	01921920.3	2008-08-20	EP1277520
CN-10123-EP-EPT	EPO	2001-11-01	01982722.9	2004-03-03	EP1250961
CN-10151-EP-EPT	EPO	2007-09-07	07807304.6	2014-01-01	EP 2095879 B1
CN-10158-EP-EPT	EPO	2008-10-09	08855398.7	2014-08-20	2213378
CN-10161-EP-EPT	EPO	2009-05-21	09766504.6		
CN-10165-EP-EPT	EPO	2010-04-12	10774799.0	2016-06-29	2431098
CN-10180-EP-EPT	EPO	2012-02-27	12797423.6		
CN-10181-EP-EPT	EPO	2012-11-14	12866946.2		
CN-10182-EP-EPT	EPO	2013-01-17	13740638.5		
CN-10183-EP-EPT	EPO	2013-03-11	13780686.5	2017-08-09	2842634
CN-10184-EP-EPT	EPO	2013-05-15	13801382.6	2017-03-22	2859955

Case Ref.	Country	Filed Date	Application Number	Grant Date	Patent/Registration No.
CN-10185-EP-EPT	EPO	2013-05-15	13800450.2		
CN-10189-EP-EPT	EPO	2014-04-15	14823572.4	2018-08-15	3031532
	EPO	2014-04-15	14823572.4	2018-04-25	3040128
	EPO	2016-12-16	16776347.3		
	EPO	2017-02-15	17753219.9		
CN-10111-FR-EPT	France	1999-12-09	99959729.7	2008-10-08	EP1057540
CN-10113-FR-EPT	France	1999-12-09	99959727.1	2007-06-20	EP1057538
CN-10117-FR-EPT	France	2000-07-12	00944411.8	2008-05-21	EP1114677
CN-10122-FR-EPT	France	2001-04-19	01921920.3	2008-08-20	EP1277520
CN-10123-FR-EPT	France	2001-11-01	01982722.9	2004-03-03	EP1250961
CN-10124-FR-EPT	France	2001-11-26	01272245.0	2010-03-03	EP1266695
CN-10137-FR-EPT	France	2005-07-15	05766501.0	2012-06-06	1797962
CN-10139-FR-EPT	France	2006-03-09	06715683.6	2011-08-24	1886734
CN-10141-FR-EPT	France	2006-05-31	06747187.0	2010-07-14	EP1911521
CN-10141-FR-ETD	France	2006-05-31	08014065.0	2012-02-15	2055389
CN-10141-FR-ETD[1]	France	2006-05-31	09008816.2	2010-08-25	EP2110177
CN-10142-FR-EPT	France	2006-05-31	06747192.0	2010-07-07	EP1911523
CN-10151-FR-EPT	France	2007-09-07	07807304.6	2014-01-01	EP 2095879 B1
CN-10158-FR-EPT	France	2008-10-09	08855398.7	2014-08-20	2213378
CN-10161-FR-ETD	France	2009-05-21	12001842.9	2014-10-22	2474366
	France	2010-04-12	10774799.0	2016-06-29	2431098
	France	2011-09-08	11837806.6	2016-01-13	2636454
CN-10111-DE-EPT	Germany	1999-12-09	99959729.7	2008-10-08	DE69939688
CN-10113-DE-EPT	Germany	1999-12-09	99959727.1	2007-06-20	EP1057538
CN-10117-DE-EPT	Germany	2000-07-12	00944411.8	2008-05-21	EP1114677
CN-10122-DE-EPT	Germany	2001-04-19	01921920.3	2008-08-20	EP1277520
CN-10123-DE-EPT	Germany	2001-11-01	01982722.9	2004-03-03	EP1250961
CN-10124-DE-EPT	Germany	2001-11-26	01272245.0	2010-03-03	EP1266695
CN-10137-DE-EPT	Germany	2005-07-15	05766501.0	2012-06-06	60 2005 034 552
CN-10139-DE-EPT	Germany	2006-03-09	06715683.6	2011-08-24	60 2006 023 994
CN-10141-DE-EPT	Germany	2006-05-31	06747187.0	2010-07-14	602006015477
CN-10141-DE-ETD	Germany	2006-05-31	08014065.0	2012-02-15	60 2006 027 699
CN-10141-DE-ETD[1]	Germany	2006-05-31	09008816.2	2010-08-25	602006016506
CN-10142-DE-EPT	Germany	2006-05-31	06747192.0	2010-07-07	602006015323
CN-10151-DE-EPT	Germany	2007-09-07	07807304.6	2014-01-01	602007034581
CN-10158-DE-EPT	Germany	2008-10-09	08855398.7	2014-08-20	2213378
CN-10161-DE-ETD	Germany	2009-05-21	12001842.9	2014-10-22	2474366
CN-10161-DE-ETD[2]	Germany	2009-05-21	12001843.7	2014-06-25	2474367
	Germany	2010-04-12	10774799.0	2016-06-29	2431098
	Germany	2011-09-08	11837806.6	2016-01-13	2636454
CN-10108-JP-NP	Japan	1998-01-13	10-018226		
CN-10108-JP-NP[1]	Japan	1998-12-18	10-360957	2003-07-18	3453078
CN-10109-JP-NP	Japan	1998-01-13	10-018227		
CN-10111-JP-NP	Japan	1998-12-18	10-360958	2002-04-19	3299205
CN-10113-JP-NP	Japan	1998-12-18	10-360960	2002-04-19	3299206
CN-10117-JP-NP	Japan	1999-07-13	11-199551		
CN-10117-JP-NP[2]	Japan	2000-06-22	2000-188365	2005-02-18	3648134

Case Ref.	Country	Filed Date	Application Number	Grant Date	Patent/Registration No.
CN-10118-JP-NP	Japan	1999-07-16	11-203541		
CN-10122-JP-NP	Japan	2000-04-25	2000-124940		
CN-10122-JP-NP[2]	Japan	2001-04-17	2001-118716	2005-01-21	3639222
CN-10123-JP-NP	Japan	2000-11-30	2000-365651		
CN-10123-JP-NP[2]	Japan	2001-11-01	2001-336747	2006-03-10	3779593
CN-10124-JP-NP	Japan	2000-12-20	2000-387688		
CN-10124-JP-NP[2]	Japan	2001-11-26	2001-359687	2005-09-30	3725819
CN-10125-JP-NP	Japan	2001-11-26	2001-359687	2005-09-30	3725819
CN-10127-JP-NP	Japan	2001-08-09	2001-242924		
CN-10127-JP-NP[2]	Japan	2002-07-29	2002-219977	2008-10-24	4205380
CN-10131-JP-NP	Japan	2003-04-04	2003-101898	2008-09-05	4180955
CN-10134-JP-NP	Japan	2004-02-23	2004-046652		
CN-10137-JP-NP	Japan	2004-08-10	2004-233630		
CN-10137-JP-PCT	Japan	2005-07-15	2006-531389	2009-12-24	4388070
CN-10139-JP-NP	Japan	2005-06-02	2005-162986	2011-03-18	
CN-10139-JP-PCT	Japan	2006-03-09	2007-518866	2011-03-18	4705100
CN-10141-JP-NP	Japan	2005-08-01	2005-223153		
CN-10141-JP-PCD	Japan	2006-05-31	2007-245761	2010-10-22	4612030
CN-10141-JP-PCT	Japan	2006-05-31	2007-529189	2011-04-28	4733133
CN-10142-JP-PCT	Japan	2006-05-31	2007-529190	2010-10-22	4612047
CN-10144-JP-NP	Japan	2007-09-21	2007-245761	2010-10-22	4612030
CN-10148-JP-NP	Japan	2006-01-19	2006-011442		
CN-10149-JP-NP	Japan	2006-07-19	2006-197204		
CN-10150-JP-NP	Japan	2006-09-27	2006-262626	2011-05-20	4745934
CN-10151-JP-NP	Japan	2006-11-30	2006-323921		
CN-10151-JP-PCT	Japan	2007-09-07	2008-546900	2012-04-20	4976417
CN-10152-JP-NP	Japan	2006-12-04	2006-327060		
CN-10153-JP-NP	Japan	2006-12-27	2006-352144	2011-12-16	
CN-10153-JP-PCT	Japan	2007-10-09	2008-552055	2011-12-16	4885984
CN-10157-JP-NP	Japan	2007-10-18	2007-271047	2011-03-25	4709197
CN-10158-JP-NP	Japan	2007-11-30	2007-310644		
CN-10158-JP-PCT	Japan	2008-10-09	2009-543716	2012-08-31	5074520
CN-10159-JP-NP	Japan	2008-04-10	2008-102172	2012-01-20	4908451
CN-10161-JP-PCT	Japan	2009-05-21	2010-517823	2012-11-22	5138035
CN-10162-JP-NP	Japan	2008-08-13	2008-208554	2013-08-02	5330761
CN-10165-JP-NP	Japan	2009-05-11	2009-114624		
CN-10165-JP-PCT	Japan	2010-04-12	2011-513291	2013-03-08	5215461
CN-10166-JP-NP	Japan	2009-12-08	2009-278598		
CN-10167-JP-NP	Japan	2010-11-03	2010-246928		
CN-10180-JP-NP	Japan	2011-06-09	2011-129176		
CN-10180-JP-PCT	Japan	2012-02-27	2013-519402	2015-04-03	5723448
CN-10181-JP-NP	Japan	2012-01-25	2012-012924		
CN-10181-JP-PCT	Japan	2012-11-14	2013-555132	2014-11-07	5642893
CN-10182-JP-NP	Japan	2012-01-25	2012-012941		
CN-10182-JP-PCT	Japan	2013-01-17	2013-555233	2015-07-03	5771705
CN-10183-JP-NP	Japan	2012-04-27	2012-103268		
CN-10183-JP-PCT	Japan	2013-03-11	2014-512403	2015-07-10	5775968

Case Ref.	Country	Filed Date	Application Number	Grant Date	Patent/Registration No.
CN-10184-JP-NP	Japan	2012-06-06	2012-128888		
CN-10184-JP-PCT	Japan	2013-05-15	2014-519899	2015-09-11	5807117
CN-10185-JP-NP	Japan	2013-01-17	2013-006200		
CN-10185-JP-PCT	Japan	2013-05-15	2014-519900	2015-09-11	5807118
CN-10186-JP-NP	Japan	2013-01-17	2013-006207	2015-07-10	5775890
CN-10189-JP-NP	Japan	2013-07-12	2013-146612		
CN-10190-JP-NP	Japan	2013-08-26	2013-174423		
CN-10191-JP-NP	Japan	2014-11-06	2014-226367	2017-11-02	6234913
CN-15400-JP-NP	Japan	2015-05-25	2015-105400		
CN-15401-JP-NP	Japan	2015-08-31	2015-170745	2017-07-28	6179002
	Japan	2008-06-16	2008-156581		
	Japan	2013-05-15	2015-526190		
	Japan	2015-08-20	2015-534128	2016-07-22	5973078
	Japan	2015-04-08	2015-079178	2017-10-13	6221129
	Japan	2015-08-20	2015-534128		
	Japan	2017-02-09	2017-520576		
	Japan	2016-02-19	2016-029862	2018-11-16	6434675
	Japan	2018-01-11	2018-500153		
	Japan	2016-02-19	2016-029865		
	Japan	2018-01-11	2018-500154		
	Japan	2016-06-30	2016-129792		
	Japan	2018-09-06	2018-524981		
	Japan	2016-07-28	2016-148574		
	Japan	2018-09-06	P2018-529399		
	Japan	2016-07-28	2016-149000		
	Japan	2017-07-18	2017-138958		
	Japan	2017-06-01	2017-109145		
	Japan	2018-12-13	2018-565433		
	Japan	2017-06-01	2017-109147		
	Japan	2017-08-18	2017-158031		
	Japan	2017-08-18	2017-158032		
	Japan	2018-12-13	2018-233393		
CN-10161-KR-PCT	Korea	2009-05-21	1020107014860	2013-02-19	101235072
	PCT	2016-04-26	PCT/JP2016/063036		
	PCT	2017-02-15	PCT/JP2017/005518		
	PCT	2017-02-15	PCT/JP2017/005520		
	PCT	2017-06-19	PCT/JP2017/020498		
	PCT	2017-06-19	PCT/JP2017/020499		
	PCT	2018-07-06	PCT/JP2018/025625		
	PCT	2017-05-30	PCT/JP2018/020806		
CN-10161-GB-ETD	United Kingdom	2009-05-21	12001842.9	2014-10-22	2474366
CN-10161-GB-ETD[2]	United Kingdom	2009-05-21	12001843.7	2014-06-25	2474367
CN-10111-US-PCD	USA	1999-12-09	10/084,940	2003-12-23	6,666,164
CN-10111-US-PCT	USA	1999-12-09	09/601,344	2002-10-01	6,458,424
CN-10113-US-PCT	USA	1999-12-09	09/601,347	2001-07-03	6,253,800
CN-10114-US-PCT	USA	2000-04-25	09/720,244	2003-09-02	6,612,345
CN-10117-US-PCT	USA	2000-07-12	09/786,353	2003-03-18	6,533,861

Case Ref.	Country	Filed Date	Application Number	Grant Date	Patent/Registration No.
CN-10122-US-PCT	USA	2001-04-19	10/018,873	2004-06-01	6,742,722
CN-10123-US-PCT	USA	2001-11-01	10/168,541	2003-05-06	6,557,781
CN-10124-US-PCT	USA	2001-11-26	10/203,630	2004-11-02	6,811,094
CN-10137-US-CNT	USA	2011-01-18	13/008,670	2011-10-25	8,042,488
CN-10137-US-PCT	USA	2005-07-15	11/571,276	2011-04-19	7,926,443
CN-10139-US-PCT	USA	2006-03-09	11/814,090	2010-04-27	7,703,700
CN-10141-US-PCD	USA	2008-01-14	12/013,827	2009-06-16	7,546,962
CN-10141-US-PCT	USA	2006-05-31	11/916,499	2010-02-16	7,661,610
CN-10142-US-PCT	USA	2006-05-31	11/908,425	2010-11-23	7,837,136
CN-10151-US-PCT	USA	2007-09-07	12/377,391	2011-10-25	8,042,579
CN-10154-US-PCT	USA	2007-12-05	12/520,126	2012-04-17	8,157,190
CN-10158-US-PCT	USA	2008-10-09	12/676,460	2013-05-21	8,443,754
CN-10161-US-PCT	USA	2009-05-21	12/811,127	2014-05-13	8,720,796
CN-10165-US-PCD	USA	2015-01-29	14/608,580		
CN-10165-US-PCD[2]	USA	2015-01-29	14/608,681		
CN-10165-US-PCT	USA	2010-04-12	13/145,949	2015-03-17	8,978,580
CN-10167-US-PCT	USA	2011-09-08	13/809,212	2015-09-08	9,126,817
CN-10180-US-PCT	USA	2012-02-27	13/982,601	2015-04-07	8,997,776
CN-10181-US-PCT	USA	2012-11-14	14/236,244	2016-07-26	9,399,231
CN-10182-US-PCT	USA	2013-01-17	14/235,941	2017-05-30	9,662,669
CN-10183-US-PCT	USA	2013-03-11	14/237,298	2016-06-21	9,370,787
CN-10184-US-PCT	USA	2013-05-15	14/402,770		
CN-10185-US-PCT	USA	2013-05-15	14/402,870	2017-12-05	9,833,797
CN-10189-US-PCT	USA	2014-04-15	14/425,181	2017-06-27	9,687,863
	USA	2015-10-13	14/784,059	2017-03-28	9,604,233
	USA	2016-03-02	15/318,569		
	USA	2018-02-05	15/750,343		