

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5730349

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAMSUNG ELECTRO-MECHANICS CO., LTD.	06/28/2019

RECEIVING PARTY DATA

Name:	WITS CO., LTD.
Street Address:	35, HYEONGJE-RO, NAMSA-MYEON, CHEOIN-GU
City:	GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	17188

PROPERTY NUMBERS Total: 193

Property Type	Number
Application Number:	12630348
Application Number:	12630512
Application Number:	12757490
Application Number:	12848915
Application Number:	12870670
Application Number:	12833662
Application Number:	13208281
Application Number:	13037001
Application Number:	13232482
Application Number:	13569098
Application Number:	13626798
Application Number:	13605807
Application Number:	13607422
Application Number:	13738746
Application Number:	13610647
Application Number:	13633134
Application Number:	13729826
Application Number:	13533560
Application Number:	14859885
Application Number:	15653725

PATENT

Property Type	Number
Application Number:	15654092
Application Number:	13793651
Application Number:	13788999
Application Number:	13761855
Application Number:	13888964
Application Number:	13888692
Application Number:	14033410
Application Number:	14265968
Application Number:	14332082
Application Number:	14331950
Application Number:	14512032
Application Number:	14214162
Application Number:	14154898
Application Number:	14335713
Application Number:	14163800
Application Number:	14461958
Application Number:	14473492
Application Number:	14163703
Application Number:	14540562
Application Number:	14463438
Application Number:	14199718
Application Number:	14586887
Application Number:	14280084
Application Number:	15801550
Application Number:	14636823
Application Number:	14607170
Application Number:	14536471
Application Number:	14536431
Application Number:	14543029
Application Number:	14547449
Application Number:	13357879
Application Number:	13435568
Application Number:	14619048
Application Number:	14608056
Application Number:	14723511
Application Number:	14723538
Application Number:	14723535
Application Number:	14612223

Property Type	Number
Application Number:	14723496
Application Number:	14618828
Application Number:	14627154
Application Number:	14644487
Application Number:	16011916
Application Number:	14757508
Application Number:	14715856
Application Number:	14791870
Application Number:	14680376
Application Number:	14664637
Application Number:	14695217
Application Number:	15880150
Application Number:	14707182
Application Number:	14885689
Application Number:	14706482
Application Number:	14707724
Application Number:	14711903
Application Number:	14818899
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Application Number:	14815272
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Application Number:	14844484
Application Number:	14959535
Application Number:	15045774
Application Number:	14955764
Application Number:	14851651
Application Number:	15009075
Application Number:	15092093
Application Number:	15067471
Application Number:	15057766
Application Number:	15061632
Application Number:	15065384

Property Type	Number
Application Number:	15138961
Application Number:	15200266
Application Number:	15078188
Application Number:	15176888
Application Number:	15133503
Application Number:	15145285
Application Number:	15089717
Application Number:	15903731
Application Number:	15130028
Application Number:	15141074
Application Number:	15155549
Application Number:	15157093
Application Number:	15196524
Application Number:	15073827
Application Number:	15041146
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Application Number:	15173831
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Application Number:	15298881
Application Number:	15387084
Application Number:	15185804
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Application Number:	15178177
Application Number:	15226325
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Application Number:	15347234
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Application Number:	15432139
Application Number:	15420992
Application Number:	15298740

Property Type	Number
Application Number:	15393305
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Application Number:	15691029
Application Number:	15684014
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Application Number:	15802918
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Application Number:	15644875
Application Number:	15800887
Application Number:	15698237
Application Number:	15692638
Application Number:	15785955
Application Number:	15674657
Application Number:	15704788
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Application Number:	15810736
Application Number:	15794607
Application Number:	15784302
Application Number:	15793091
Application Number:	15826299
Application Number:	15794678
Application Number:	15806651
Application Number:	15836965
Application Number:	15880944
Application Number:	15803300
Application Number:	15835708
Application Number:	15992549
Application Number:	15949699

Property Type	Number
Application Number:	15976911
Application Number:	15994021
Application Number:	16004530
Application Number:	16029754
Application Number:	15983196
Application Number:	16014211
Application Number:	16011883
Application Number:	16030012
Application Number:	16018674
Application Number:	16021506
Application Number:	16021612
Application Number:	16016987
Application Number:	16011915
Application Number:	16136648
Application Number:	16185047
Application Number:	16008110
Application Number:	16159818
Application Number:	16160266
Application Number:	16163773
Application Number:	16163737
Application Number:	16274435

CORRESPONDENCE DATA

Fax Number: (703)668-8200

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: 703-668-8000

Email: dcmalroom@hdp.com

Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.

Address Line 1: 11730 PLAZA AMERICA DRIVE

Address Line 2: SUITE 600

Address Line 4: RESTON, VIRGINIA 20190

NAME OF SUBMITTER:	SUNG PIL KIM
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SIGNATURE:	/Sung Pil Kim/
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DATE SIGNED:	09/20/2019
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Total Attachments: 16

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INTELLECTUAL PROPERTY ASSIGNMENT

This Intellectual Property Assignment ("**IP Assignment**") is made by and between

SAMSUNG ELECTRO-MECHANICS CO., LTD., a Korean corporation, having a principal place of business at Maeyoung-Ro 150 (Maetan-Dong), Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743, (hereafter the "Assignor"), and

WITS Co., Ltd., a Korean corporation, having a place of business at 35, Hyeongje-ro, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea, (hereafter the "Assignee").

WHEREAS, Assignor owns right, title and interest in and to the Purchased IP listed in attached Schedule A; and

WHEREAS, Assignee is desirous of acquiring Assignor's entire right, title and interest in and to the Purchased IP.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee hereby agree as follows.

Assignor does hereby sell, assign, transfer and set over to Assignee, its successors and assigns, Assignor's entire right, title and interest in the United States of America and throughout the world in the Purchased IP listed in attached Schedule A, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the Purchased IP, to the Purchased IP itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the Purchased IP, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid Purchased IP and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights.

Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict with this IP Assignment.

Assignor hereby agrees to execute without further consideration any further documents and instruments which may be necessary, lawful and proper to secure to Assignee its interest and title in the aforementioned Purchased IP.

Assignor hereby agrees to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of the Purchased IP or in the preparation or prosecution of any continuation, divisional, continuation-in-part, substitute, renewal, reexamination, post grant review, inter partes review, or reissue applications or in any amendments, extensions, or interference proceedings, or other applications for patents of any region or country, worldwide, or that may be necessary to prosecute, protect, record, perfect and/or maintain the Purchased IP.

Assignor hereby further covenants and agrees that it will communicate to Assignee any and all facts known to it respecting said Purchased IP, and testify in any legal proceeding, sign all lawful papers, execute and deliver all papers and take an actions that may be necessary or desirable to perfect the title to any of the Purchased IP.

Assignor hereby further covenants and agrees not to challenge the validity or ownership of, or assist anyone else challenging the validity or ownership of, any of the Purchased IP or any patent or application claiming priority to the Purchased IP, whether in the courts or before a government agency, including reexaminations, inter partes reviews, post grant reviews, covered business method reviews, derivation proceedings, or any other proceeding where the validity or scope or ownership of the Purchased IP, or any patent or application claiming priority to the Purchased IP, is at issue.

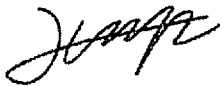
Assignor does hereby authorize and request the Director of the United States Patent and Trademark Office and directors of equivalent non-USA intellectual property offices, to issue any and all letters patent or similar rights which may be granted upon said Purchased IP, or any parts thereof, when granted, to said Assignee.

The undersigned are empowered to sign this certificate on behalf of the Assignor and the Assignee, respectively.

The undersigned hereby declares that all statements made herein of his/her own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

SAMSUNG ELECTRO-MECHANICS CO., LTD.

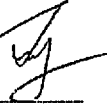
By: Lee Yun Tae 
SAMSUNG ELECTRO-MECHANICS CO., LTD.

Title: C.E.O

Date: 28. June. 2019

IN WITNESS WHEREOF, executed by the Assignee's undersigned representative on the date following the undersigned's name.

WITS Co., Ltd.,

By: Son SangYang 

Title: Vice President

Date: 28. June 2019

Application No.	Filing Date	Title
12/630,348	December 3, 2009	WIRELESS POWER TRANSMISSION/RECEPTION APPARATUS AND METHOD
12/630,512	December 3, 2009	WIRELESS POWER TRANSMISSION/RECEPTION APPARATUS AND METHOD HAVING COMMUNICATION FUNCTION
12/757,490	April 9, 2010	WIRELESS ENERGY TRANSMISSION STRUCTURE
12/848,915	August 2, 2010	APPARATUS FOR TRANSMITTING AND RECEIVING WIRELESS ENERGY USING META-MATERIAL STRUCTURES HAVING ZERO REFRACTIVE INDEX
12/870,670	August 27, 2010	APPARATUS FOR TRANSMITTING AND RECEIVING WIRELESS ENERGY USING META-MATERIAL STRUCTURES HAVING NEGATIVE REFRACTIVE INDEX
12/833,662	July 9, 2010	WIRELESS ENERGY TRANSMISSION STRUCTURE
13/208,281	August 11, 2011	WIRELESS POWER TRANSMISSION APPARATUS AND TRANSMISSION METHOD THEREOF
13/037,001	February 28, 2011	WIRELESS POWER TRANSMISSION/RECEPTION APPARATUS AND METHOD
13/232,482	September 14, 2011	WIRELESS POWER TRANSMITTER AND WIRELESS POWER TRANSCEIVER
13/569,098	August 7, 2012	WIRELESS POWER TRANSMISSION SYSTEM AND METHOD OF CONTROLLING THE SAME
13/626,798	September 25, 2012	WIRELESS CHARGING SYSTEM
13/605,807	September 6, 2012	METHOD OF MANUFACTURING STACKED RESONATED COIL
13/607,422	September 7, 2012	LOW-POWER WIRELESS CHARGING APPARATUS AND METHOD THEREOF

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13/738,746	January 10, 2013	WIRELESS POWER TRANSMISSION APPARATUS AND METHOD OF TRANSMITTING WIRELESS POWER USING THE SAME
13/610,647	September 11, 2012	MULTI WIRELESS CHARGING APPARATUS AND METHOD FOR MANUFACTURING THE SAME
13/633,134	October 2, 2012	DISPLAY DEVICE AND DISPLAY SYSTEM INCORPORATING WIRED AND WIRELESS CHARGING APPARATUSES
13/729,826	December 28, 2012	MULTI WIRELESS CHARGING APPARATUS AND METHOD FOR MANUFACTURING THE SAME
13/533,560	June 26, 2012	THIN FILM COIL AND ELECTRONIC DEVICE HAVING THE SAME
14/859,885	September 21, 2015	THIN FILM COIL AND ELECTRONIC DEVICE HAVING THE SAME
15/653,725	July 19, 2017	THIN FILM COIL AND ELECTRONIC DEVICE HAVING THE SAME
15/654,092	July 19, 2017	THIN FILM COIL AND ELECTRONIC DEVICE HAVING THE SAME
13/793,651	March 11, 2013	COIL FOR CORDLESS CHARGING AND CORDLESS CHARGING APPARATUS USING THE SAME
13/788,999	March 7, 2013	MULTILAYER FERRITE SHEET, ANTENNA DEVICE USING THE SAME, AND MANUFACTURING METHOD THEREOF
13/761,855	February 7, 2013	WIRELESS CHARGING APPARATUS AND ELECTRONIC APPARATUS INCLUDING THE SAME
13/888,964	May 7, 2013	MAGNETIC COMPOSITE SHEET AND ELECTROMAGNETIC INDUCTION MODULE
13/888,692	May 7, 2013	COIL SUBSTRATE FOR WIRELESS CHARGING AND ELECTRIC DEVICE USING THE SAME
14/033,410	September 20, 2013	SHIELD PART, METHOD OF FABRICATING THE SAME, AND CONTACTLESS POWER TRANSMISSION DEVICE HAVING THE SHIELD PART

Schedule A

14/265,968	April 30, 2014	WIRELESS CHARGING DEVICE AND METHOD FOR CONTROLLING THE SAME
14/332,082	July 15, 2014	COIL TYPE UNIT FOR WIRELESS POWER TRANSMISSION, WIRELESS POWER TRANSMISSION DEVICE, ELECTRONIC DEVICE AND MANUFACTURING METHOD OF COIL TYPE UNIT FOR WIRELESS POWER TRANSMISSION
14/331,950	July 15, 2014	COIL TYPE UNIT FOR WIRELESS POWER TRANSMISSION, WIRELESS POWER TRANSMISSION DEVICE, ELECTRONIC DEVICE AND MANUFACTURING METHOD OF COIL TYPE UNIT FOR WIRELESS POWER TRANSMISSION
14/512,032	October 10, 2014	MAGNETIC SHEET, WIRELESS CHARGING SHEET AND METHOD FOR MANUFACTURING MAGNETIC SHEET
14/214,162	March 14, 2014	COIL DEVICE, AND WIRELESS POWER TRANSMITTER AND WIRELESS POWER RECEIVER HAVING THE SAME
14/154,898	January 14, 2014	BOARD ASSEMBLY AND ELECTRONIC DEVICE INCLUDING THE SAME
14/335,713	July 18, 2014	ANTENNA MODULE FOR NEAR FIELD COMMUNICATION
14/163,800	January 24, 2014	WIRELESS CHARGING DEVICE AND CONTROL METHOD THEREOF
14/461,958	August 18, 2014	COIL TYPE UNIT FOR WIRELESS POWER TRANSMISSION, WIRELESS POWER TRANSMISSION DEVICE, ELECTRONIC DEVICE AND MANUFACTURING METHOD OF COIL TYPE UNIT FOR WIRELESS POWER TRANSMISSION
14/473,492	August 29, 2014	POWER SUPPLY DEVICE
14/163,703	January 24, 2014	WIRELESS CHARGING DEVICE AND CONTROL METHOD THEREOF
14/540,562	November 13, 2014	PORTABLE TERMINAL,

Schedule A

		WIRELESS CHARGING DEVICE, AND WIRELESS CHARGING STRUCTURE THEREOF
14/463,438	August 19, 2014	CAMERA MODULE AND ELECTRONIC DEVICE INCLUDING THE SAME
14/199,718	March 6, 2014	POWER CHARGING APPARATUS AND BATTERY APPARATUS
14/586,887	December 30, 2014	NON-CONTACT POWER SUPPLY APPARATUS, CHARGING APPARATUS, AND BATTERY APPARATUS
14/280,084	May 16, 2014	APPARATUS FOR TRANSMITTING AND RECEIVING WIRELESS POWER
15/801,550	November 2, 2017	COMPOSITE FERRITE SHEET, METHOD OF MANUFACTURING THE SAME, AND ELECTRONIC DEVICE INCLUDING THE SAME
14/636,823	March 3, 2015	NON-CONTACT TYPE POWER TRANSMITTING APPARATUS, NON-CONTACT TYPE POWER TRANSMITTING-RECEIVING APPARATUS, CONTACT/NON-CONTACT TYPE POWER TRANSMITTING APPARATUS, AND CONTACT/NON-CONTACT TYPE POWER TRANSMITTING-RECEIVING APPARATUS
14/607,170	January 28, 2015	NON-CONTACT TYPE POWER TRANSMITTING APPARATUS, NON-CONTACT TYPE POWER RECEIVING APPARATUS, AND NON- CONTACT TYPE POWER TRANSMITTING APPARATUS
14/536,471	November 7, 2014	NON-CONTACT TYPE POWER TRANSMITTING COIL AND NON-CONTACT TYPE POWER SUPPLYING APPARATUS
14/536,431	November 7, 2014	NON-CONTACT TYPE POWER SUPPLY APPARATUS AND NON-CONTACT TYPE POWER SUPPLY METHOD
14/543,029	November 17, 2014	NON-CONTACT TYPE POWER SUPPLYING APPARATUS AND NON- CONTACT TYPE POWER

Schedule A

		SUPPLYING METHOD
14/547,449	November 19, 2014	NON-CONTACT POWER SUPPLY DEVICE AND NON-CONTACT POWER SUPPLY METHOD
13/357,879	January 25, 2012	WIRELESS POWER TRANSFER SYSTEM AND METHODS
13/435,568	March 30, 2012	CALIBRATION AND ASSIGNMENT PROCESSES IN WIRELESS POWER TRANSFER SYSTEMS
14/619,048	February 10, 2015	NON-CONTACT TYPE POWER RECEIVING APPARATUS
14/608,056	January 28, 2015	NON-CONTACT TYPE POWER RECEIVING APPARATUS
14/723,511	May 28, 2015	NON-CONTACT TYPE CHARGER, NON-CONTACT TYPE BATTERY, AND NON-CONTACT TYPE POWER TRANSMISSION METHOD
14/723,538	May 28, 2015	NON-CONTACT TYPE CHARGER
14/723,535	May 28, 2015	NON-CONTACT TYPE CHARGER AND NON-CONTACT TYPE BATTERY
14/612,223	February 2, 2015	NON-CONTACT TYPE POWER CHARGING APPARATUS
14/723,496	May 28, 2015	NON-CONTACT TYPE POWER RECEIVER AND NON-CONTACT TYPE BATTERY
14/618,828	February 10, 2015	NON-CONTACT CAPACITIVE COUPLING TYPE POWER CHARGING APPARATUS AND NON-CONTACT CAPACITIVE COUPLING TYPE BATTERY APPARATUS
14/627,154	February 20, 2015	APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING POWER WIRELESSLY
14/644,487	March 11, 2015	APPARATUS FOR TRANSMITTING POWER WIRELESSLY
16/011,916	June 19, 2018	APPARATUS FOR TRANSMITTING POWER WIRELESSLY
14/757,508	December 23, 2015	COIL STRUCTURE AND WIRELESS POWER TRANSMITTER USING THE SAME
14/715,856	May 19, 2015	WIRELESS CHARGING SYSTEM AND METHOD FOR CONTROLLING THE SAME

Schedule A

14/791,870	July 6, 2015	NON-CONTACT TYPE POWER TRANSMISSION APPARATUS AND METHOD THEREOF AND LOCATION-BASED SERVICE SYSTEM USING THE SAME
14/680,376	April 7, 2015	COMPACT LOOP-TYPE ANTENNA DEVICE
14/664,637	March 20, 2015	WIRELESS CHARGING DEVICE INCLUDING A CASE PART AND A POWERLESS SUPPLY PART
14/695,217	April 24, 2015	WIRELESS POWER RECEPTION DEVICE AND ELECTRONIC DEVICE INCLUDING THE SAME
15/880,150	January 25, 2018	WIRELESS POWER RECEPTION DEVICE AND ELECTRONIC DEVICE INCLUDING THE SAME
14/707,182	May 8, 2015	WIRELESS POWER RECEIVER AND ELECTRONIC DEVICE INCLUDING THE SAME
14/885,689	October 16, 2015	NON-CONTACT POWER TRANSMISSION DEVICE AND LOCATION-BASED SERVICE SYSTEM USING THE SAME
14/706,482	May 7, 2015	WIRELESS POWER RECEIVER AND METHOD FOR CONTROLLING THE SAME
14/707,724	May 8, 2015	WIRELESS POWER TRANSMITTER
14/711,903	May 14, 2015	WIRELESS CHARGING TRANSMITTER AND WIRELESS CHARGING SYSTEM USING THE SAME
14/818,899	August 5, 2015	WIRELESS CHARGING APPARATUS AND WIRELESS CHARGING METHOD
14/658,704	March 16, 2015	POWER SUPPLY APPARATUS
15/049,717	February 22, 2016	COIL STRUCTURE FOR WIRELESS POWER TRANSMISSIONS AND WIRELESS POWER TRANSMITTER INCLUDING THE SAME
14/710,118	May 12, 2015	WIRELESS POWER TRANSMITTER AND WIRELESS POWER TRANSMISSION SYSTEM
14/815,272	July 31, 2015	WIRELESS POWER TRANSMITTER
29/521,143	March 20, 2015	CHARGER FOR MOBILE DEVICES FOR USE IN AUTOMOBILE

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14/837,635	August 27, 2015	CASE AND APPARATUS INCLUDING THE SAME
15/057,450	March 1, 2016	WIRELESS POWER TRANSMITTING APPARATUS AND METHOD
15/188,078	June 21, 2016	WIRELESS POWER TRANSMITTER AND WIRELESS POWER TRANSMISSION METHOD
14/878,301	October 8, 2015	APPARATUS FOR WIRELESS CHARGING
14/844,484	September 3, 2015	WIRELESS POWER RECEIVER
14/959,535	December 4, 2015	WIRELESS CHARGING CONTROL METHOD, AND WIRELESS POWER TRANSMISSION APPARATUS AND WIRELESS POWER RECEIVING APPARATUS USING THE SAME
15/045,774	February 17, 2016	WIRELESS POWER TRANSMITTING APPARATUS AND METHOD
14/955,764	December 1, 2015	NEAR-FIELD ANTENNA APPARATUS USING EDDY CURRENT AND ELECTRONIC DEVICE INCLUDING THE SAME
14/851,651	September 11, 2015	WIRELESS POWER TRANSMITTER
15/009,075	January 28, 2016	WIRELESS POWER TRANSMITTER AND WIRELESS POWER RECEIVER
15/092,093	April 6, 2016	WIRELESS POWER RECEIVING DEVICE AND APPARATUS INCLUDING THE SAME
15/067,471	March 11, 2016	ANTENNA APPARATUS AND ELECTRONIC DEVICE INCLUDING THE SAME
15/057,766	March 1, 2016	SHEET FOR SHIELDING AGAINST ELECTROMAGNETIC WAVES AND WIRELESS POWER CHARGING DEVICE
15/061,632	March 4, 2016	SHEET FOR SHIELDING AGAINST ELECTROMAGNETIC WAVES AND WIRELESS POWER CHARGING DEVICE
15/065,384	March 9, 2016	MAGNETIC SHEET FOR WIRELESS POWER CHARGING SYSTEM
15/138,961	April 26, 2016	WIRELESS POWER CHARGING SYSTEM
15/200,266	July 1, 2016	WIRELESS POWER TRANSMISSION APPARATUS

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		AND METHOD OF CONTROLLING THE SAME
15/078,188	March 23, 2016	WIRELESS POWER TRANSMITTER AND METHOD FOR CONTROLLING RESONANCE FREQUENCY USING THE SAME
15/176,888	June 8, 2016	MAGNETIC FIELD SHIELDING SHEET AND WIRELESS POWER CHARGING APPARATUS INCLUDING THE SAME
15/133,503	April 20, 2016	MAGNETIC SHEET FOR COMMUNICATIONS MODULE
15/145,285	May 3, 2016	WIRELESS CHARGING DEVICE FOR VEHICLE
15/089,717	April 4, 2016	WIRELESS POWER TRANSMITTING AND RECEIVING DEVICE, APPARATUS INCLUDING THE SAME, AND METHOD
15/903,731	February 23, 2018	WIRELESS POWER TRANSMITTING AND RECEIVING DEVICE, APPARATUS INCLUDING THE SAME, AND METHOD
15/130,028	April 15, 2016	WIRELESS POWER TRANSMITTING DEVICE
15/141,074	April 28, 2016	SHEET FOR SHIELDING ELECTROMAGNETIC WAVES FOR WIRELESS CHARGING ELEMENT
15/155,549	May 16, 2016	WIRELESS POWER TRANSMITTER
15/157,093	May 17, 2016	CHIP ANTENNA AND METHOD OF MANUFACTURING THE SAME
15/196,524	June 29, 2016	WIRELESS POWER TRANSMITTER
15/073,827	March 18, 2016	WIRELESS POWER RECEIVER AND POWER SUPPLY APPARATUS USING THE SAME
15/041,146	February 11, 2016	RECEIVER WIRELESS CHARGING AND SUPPORT DEVICE
15/079,688	March 24, 2016	WIRELESS POWER TRANSMITTER AND METHOD FOR CONTROLLING THE SAME
15/185,249	June 17, 2016	SHEET FOR SHIELDING AGAINST ELECTROMAGNETIC WAVES AND WIRELESS POWER CHARGING DEVICE

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15/173,831	June 6, 2016	WIRELESS POWER CHARGING DEVICE
15/200,371	July 1, 2016	COIL DEVICE AND APPARATUS INCLUDING THE SAME
15/205,705	July 8, 2016	NON-CONTACT TYPE POWER TRANSFER APPARATUS
15/196,426	June 29, 2016	WIRELESS POWER RECEIVING DEVICE AND APPARATUS INCLUDING THE SAME
15/298,881	October 20, 2016	WIRELESS POWER TRANSMITTER AND METHOD OF CONTROLLING THE SAME
15/387,084	December 21, 2016	RESONANCE MODULE AND WIRELESS POWER TRANSMITTER INCLUDING THE SAME
15/185,804	June 17, 2016	COIL ASSEMBLY
15/408,107	January 17, 2017	WIRELESS POWER TRANSMITTER AND METHOD FOR WIRELESSLY TRANSMITTING POWER
15/285,605	October 5, 2016	METHOD OF MANUFACTURING COIL DEVICE AND COIL DEVICE
15/178,177	June 9, 2016	CONDUCTIVE PLATE AND ELECTRONIC DEVICE HAVING THE SAME
15/226,325	August 2, 2016	COVER AND ELECTRONIC DEVICE INCLUDING THE SAME
15/292,397	October 13, 2016	COIL SUBSTRATE
15/232,195	August 9, 2016	ROLLER FOR MANUFACTURING MAGNETIC SHEET AND MANUFACTURING METHOD OF MAGNETIC SHEET
15/347,234	November 9, 2016	WIRELESS POWER CONTROLLER AND WIRELESS POWER TRANSMITTER USING THE SAME
15/379,069	December 14, 2016	COIL FOR WIRELESS COMMUNICATIONS, COIL MODULE AND MOBILE TERMINAL USING THE SAME
15/342,439	November 3, 2016	INFORMATION TRANSMITTER AND AN APPARATUS INCLUDING THE SAME
15/298,587	October 20, 2016	COIL DEVICE AND APPARATUS INCLUDING THE SAME
15/686,367	August 25, 2017	WIRELESS POWER

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		TRANSMITTER AND METHOD OF CONTROLLING THE SAME
15/432,139	February 14, 2017	WIRELESS POWER TRANSMITTER
15/420,992	January 31, 2017	COIL MODULE AND WIRELESS POWER RECEIVER USING THE SAME
15/298,740	October 20, 2016	COVER AND ELECTRONIC DEVICE INCLUDING THE SAME
15/393,305	December 29, 2016	WIRELESS POWER TRANSMITTER AND METHOD FOR CONTROLLING THE SAME
15/459,366	March 15, 2017	COIL DEVICE AND APPARATUS INCLUDING THE SAME
15/369,015	December 5, 2016	WIRELESS COMMUNICATION ANTENNA INCLUDING MAGNETIC BODY
15/471,287	March 28, 2017	WIRELESS POWER TRANSMITTER AND METHOD FOR WIRELESSLY TRANSMITTING POWER
15/817,805	November 20, 2017	WIRELESS POWER TRANSMITTER
15/596,204	May 16, 2017	MAGNETIC MATERIAL AND DEVICE FOR TRANSMITTING DATA USING THE SAME
15/691,029	August 30, 2017	WIRELESS POWER TRANSMITTER
15/684,014	August 23, 2017	INFORMATION TRANSMITTER
15/867,316	January 10, 2018	WIRELESS POWER TRANSMITTER
15/802,918	November 3, 2017	FOREIGN OBJECT DETECTING CIRCUIT AND WIRELESS POWER TRANSMISSION DEVICE USING THE SAME
15/806,703	November 8, 2017	COIL MODULE
15/801,871	November 2, 2017	WIRELESS POWER TRANSMISSION DEVICE AND METHOD OF CONTROLLING THE SAME
15/644,875	July 10, 2017	WIRELESS COMMUNICATION ANTENNA AND MOBILE DEVICE INCLUDING THE SAME
15/800,887	November 1, 2017	DOUBLE LOOP ANTENNA
15/698,237	September 7, 2017	WIRELESS POWER TRANSMITTER
15/692,638	August 31, 2017	WIRELESS POWER TRANSMITTER

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15/785,955	October 17, 2017	ANTENNA DEVICE AND PORTABLE TERMINAL INCLUDING THE SAME
15/674,657	August 11, 2017	WIRELESS POWER TRANSMITTER
15/704,788	September 14, 2017	WIRELESS POWER TRANSMISSION MODULE AND ELECTRONIC DEVICE INCLUDING THE SAME
15/833,443	December 6, 2017	ANTENNA DEVICE AND PORTABLE TERMINAL INCLUDING THE SAME
15/790,815	October 23, 2017	WIRELESS POWER TRANSMITTER
15/720,815	September 29, 2017	ANTENNA MODULE AND ELECTRONIC DEVICE HAVING THE SAME
15/800,957	November 1, 2017	COIL MODULE AND WIRELESS POWER TRANSMISSION DEVICE USING THE SAME
15/498,510	April 27, 2017	APPARATUS FOR TRANSMITTING POWER WIRELESSLY
15/817,700	November 20, 2017	WIRELESS COMMUNICATIONS ANTENNA AND WIRELESS COMMUNICATIONS DEVICE USING THE SAME
15/810,736	November 13, 2017	WIRELESS POWER TRANSMITTING DEVICE AND METHOD OF CONTROLLING THE SAME
15/794,607	October 26, 2017	METHOD OF MANUFACTURING MAGNETIC SUBSTANCE AND METHOD OF MANUFACTURING WIRELESS COMMUNICATIONS ANTENNA INCLUDING THE SAME
15/784,302	October 16, 2017	WIRELESS COMMUNICATION ANTENNA
15/793,091	October 25, 2017	COIL MODULE
15/826,299	November 29, 2017	MAGNETIC FIELD SHIELDING STRUCTURE AND MOBILE DEVICE INCLUDING THE MAGNETIC FIELD STRUCTURE
15/794,678	October 26, 2017	MAGNETIC SHEET AND WIRELESS POWER CHARGING APPARATUS INCLUDING THE SAME
15/806,651	November 8, 2017	ANTENNA MODULE
15/836,965	December 11, 2017	ANTENNA MODULE AND ELECTRONIC DEVICE HAVING THE SAME

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15/880,944	January 26, 2018	ANTENNA MODULE AND ELECTRONIC DEVICE HAVING THE SAME
15/803,300	November 3, 2017	TERMINAL FOR MAGNETIC SECURE TRANSMISSION (MST) AND ELECTROMAGNETIC WAVE SHIELDING STRUCTURE
15/835,708	December 8, 2017	ANTENNA MODULE
15/992,549	May 30, 2018	COIL MODULE AND MOBILE TERMINAL USING THE SAME
15/949,699	April 10, 2018	COIL MODULE FOR WIRELESS COMMUNICATIONS AND METHOD OF MANUFACTURING THE SAME
15/976,911	May 11, 2018	ANTENNA MODULE AND ELECTRONIC DEVICE INCLUDING THE SAME
15/994,021	May 31, 2018	COIL ASSEMBLY
16/004,530	June 11, 2018	ANTENNA DEVICE AND PORTABLE TERMINAL INCLUDING THE SAME
16/029,754	July 9, 2018	WIRELESS POWER TRANSMITTER AND METHOD FOR CONTROLLING THE SAME
15/983,196	May 18, 2018	COIL MODULE
16/014,211	June 21, 2018	MOBILE TERMINAL, COMMUNICATIONS MODULE AND CONTROL METHOD OF MOBILE TERMINAL
16/011,883	June 19, 2018	WIRELESS POWER TRANSMITTER
16/030,012	July 9, 2018	COIL ASSEMBLY WITH MULTIPLE COIL WIRINGS
16/018,674	June 26, 2018	WIRELESS POWER TRANSMITTER
16/021,506	June 28, 2018	ANTENNA DEVICE AND APPARATUS INCLUDING THE SAME
16/021,612	June 28, 2018	WIRELESS POWER TRANSMITTER
16/016,987	June 25, 2018	COIL MODULE AND WIRELESS MOBILE TERMINAL USING THE SAME
16/011,915	June 19, 2018	WIRELESS COMMUNICATIONS ANTENNA
16/136,648	September 20, 2018	WIRELESS POWER TRANSMITTER WITH DATA COMMUNICATION PROVISION
16/185,047	November 9, 2018	

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16/008,110	June 14, 2018	
16/159,818	October 15, 2018	
16/160,266	October 15, 2018	
16/163,773	October 18, 2018	
16/163,737	October 18, 2018	
16/274,435	February 13, 2019	
15/795,991	October 27, 2017	