

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas on the following
 Trademarks or Patents. (the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 6:21-cv-00579	DATE FILED 6/7/2021	U.S. DISTRICT COURT Western District of Texas
PLAINTIFF SCRAMOGE TECHNOLOGY LIMITED		DEFENDANT APPLE INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 10,622,842	4/14/2020	Scramoge Technology Limited
2 9,806,565	10/31/2017	Scramoge Technology Limited
3 10,804,740	10/13/2020	Scramoge Technology Limited
4 9,843,215	12/12/2017	Scramoge Technology Limited
5 10,424,941	9/24/2019	Scramoge Technology Limited

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy



AO 120 (Rev. 08/10)

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DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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DECISION/JUDGEMENT

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 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/663,012	10/29/2012	Jeong Wook AN	SUN.LGI.420

CONFIRMATION NO. 3575

POWER OF ATTORNEY NOTICE



23557
SALIWANCIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
P.O. BOX 142950
GAINESVILLE, FL 32614

Date Mailed: 04/15/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/13/2021.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/zretta/



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/663,012	10/29/2012	Jeong Wook AN	0106.001POA1

CONFIRMATION NO. 3575

POA ACCEPTANCE LETTER



151145
Shami Messinger PLLC
1000 Wisconsin Ave. NW
Suite 200
Washington, DC 20007

Date Mailed: 04/15/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/13/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/zretta/

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: SCRAMOGE TECHNOLOGY LIMITEDApplication No./Patent No.: 9,806,565 Filed/Issue Date: 10-31-2017Titled: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAMESCRAMOGE TECHNOLOGY LIMITED, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. The assignee of the entire right, title, and interest.
2. An assignee of less than the entire right, title, and interest (check applicable box):
- The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: AN, JEONG WOOK, LEE, JUNG OH, LEEM, SUNG HYUN, KIM, YANG HYUN To: LG INNOTEK CO., LTD.The document was recorded in the United States Patent and Trademark Office at
Reel 029219, Frame 0323, or for which a copy thereof is attached.2. From: LG INNOTEK CO., LTD. To: SCRAMOGE TECHNOLOGY LIMITEDThe document was recorded in the United States Patent and Trademark Office at
Reel 055335, Frame 0652, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Ex.1002

APPLE INC. / Page 5 of 668

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Michael Messinger/

Signature

Michael Messinger

Printed or Typed Name

April 13, 2021

Date

37,575

Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	42436970
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Michael V. Messinger/Susanh Perez
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	13-APR-2021
Filing Date:	29-OCT-2012
Time Stamp:	12:06:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	01060000000_POASigned.pdf	1055768 a163da1e2fda2ffb59b2385b929b44750ed33a63	no	1

Warnings:

Information:					
2	Transmittal Letter	Pat_9806565_POA_Transmittal.pdf	185381 004cd986591f8e28bd3f74d55f73462c320fe03a	no	1
Warnings:					
Information:					
3	Change of Address	Pat_9806565_aia0123.pdf	284672 9c8114da7e93e1165b28bc2ebdee56fd7e52fba9	no	2
Warnings:					
Information:					
4	Assignee showing of ownership per 37 CFR 3.73	Pat_9806565_373_aia0096.pdf	130846 71e318f025390939dde82f1af92396a4bbf4f47f	no	3
Warnings:					
Information:					
Total Files Size (in bytes):			1656667		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

- I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 151145
- OR
- I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

- The address associated with the above-mentioned Customer Number
- OR
- The address associated with Customer Number:
- OR

Firm or Individual Name:

Address:

City: State: Zip:

Country:

Telephone: Email:

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Scramoge Technology Limited

- Inventor or Joint Inventor (title not required below)
- Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity):

Signature: <i>[Handwritten Signature]</i>	Date (Optional): <i>FEB 19 2021</i>
Name: <i>CAROL O'CARA</i>	
Title: <i>DIRECTOR</i>	

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	13/663,012
Filing Date	10-29-2012
First Named Inventor	Jeong Wook AN
Title	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
Art Unit	2836
Examiner Name	EVANS, JAMES P
Attorney Docket Number	0106.001POA1

SIGNATURE of Applicant or Patent Practitioner

Signature	/Michael Messinger/	Date (Optional)	
Name	Michael Messinger	Registration Number	37,575
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., ISSUE DATE, PATENT NO., ATTORNEY DOCKET NO., CONFIRMATION NO.
13/663,012 10/31/2017 9806565 SUN.LGI.420 3575

23557 7590 10/11/2017
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 487 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Jeong Wook AN, Seoul, KOREA, REPUBLIC OF;
Jung Oh LEE, Seoul, KOREA, REPUBLIC OF;
Sung Hyun LEEM, Seoul, KOREA, REPUBLIC OF;
Yang Hyun KIM, Seoul, KOREA, REPUBLIC OF;
LG INNOTEK CO., LTD., Seoul, KOREA, REPUBLIC OF

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/663,012, 10/29/2012, Jeong Wook AN, SUN.LGI.420, 3575
Row 2: 23557, 759, 09/27/2017, SALIWANCHIK, LLOYD & EISENSCHENK A PROFESSIONAL ASSOCIATION, PO Box 142950, GAINESVILLE, FL 32614
Row 3: EXAMINER EVANS, JAMES P
Row 4: ART UNIT 2836, PAPER NUMBER
Row 5: NOTIFICATION DATE 09/27/2017, DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

euspto@slepatents.com

**Corrected
Notice of Allowability**

Application No.
13/663,012

Applicant(s)
AN ET AL.

Examiner
JAMES EVANS

Art Unit
2836

**AIA (First Inventor to File)
Status**
No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to IDS of 9/14/2017.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1,3,7,9,11-13,19,21,23,25,30 and 32-39. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some *c) None of the:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ . | |

/JAMES EVANS/
Examiner, Art Unit 2836

/JARED FUREMAN/
Supervisory Patent Examiner, Art Unit 2836

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	13/663,012	
			Filing Date	October 29, 2012	
			First Named Inventor	Jeong Wook An	
			Art Unit	2836	
			Examiner Name	James P. Evans	
Sheet	1	of	2	Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	F1	KR-10-2014-0113205-A (with English Abstract)	09-24-2014	LG INNOTEK CO., LTD	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	European Search Report dated August 8, 2017 in European Application No. 16206292.1.	
	R2	European Search Report dated August 29, 2017 in European Application No. 17157643.2.	

Examiner Signature	/JAMES P EVANS/	Date Considered	09/19/2017
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

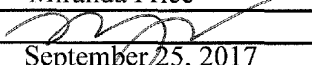
INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23557 7590 06/26/2017
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614
Phone: (352) 375-8100 Fax:(352) 372-5800

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Miranda Price	(Depositor's name)
	(Signature)
September 25, 2017	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/663,012	10/29/2012	Jeong Wook AN	SUN.LGI.420	3575

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$960	\$960 \$0	09/26/2017

Issue Fee previously paid
08/16/2016 to be applied

EXAMINER	ART UNIT	CLASS-SUBCLASS
EVANS, JAMES P	2836	307-104000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1	Saliwanchik, Lloyd & Eisenschek
2	_____
3	_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
 PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: **LG INNOTEK CO., LTD.**
 (B) RESIDENCE: (CITY and STATE OR COUNTRY) **SEOUL, KOREA**

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

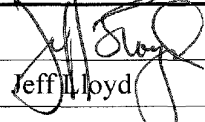
4a. The following fee(s) are submitted:
 Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
 A check is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19065 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
 Applicant certifying micro entity status. See 37 CFR 1.29
 Applicant asserting small entity status. See 37 CFR 1.27
 Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature  Date September 25, 2017
 Typed or printed name Jeff Lloyd Registration No. 35,589

Electronic Acknowledgement Receipt

EFS ID:	30463317
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Miranda Price
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	25-SEP-2017
Filing Date:	29-OCT-2012
Time Stamp:	15:24:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IFP2-AF.pdf	147894 a942589a1875f32674ecff2c7276ca54ecfec1b	no	1

Warnings:

Information:	
Total Files Size (in bytes):	147894
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

Handwritten mark

PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or **Fax** (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23557 7590 06/26/2017
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614
Phone: (352) 375-8100 Fax: (352) 372-5800

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Miranda Price	(Depositor's name)
<i>[Signature]</i>	(Signature)
September 25, 2017	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/663,012	10/29/2012	Jcong Wook AN	SUN.LG1.42U	3575

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$960	\$960 \$0	09/26/2017

Issue Fee previously paid
08/16/2016 to 333115-11663812
09/26/2017 invoice

EXAMINER	ART UNIT	CLASS-SUBCLASS
EVANS, JAMES P	2836	307-104000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list ^{31 FC-1581} 1 Saliwanchik, Lloyd & Eisenschank
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: LG INNOTEK CO., LTD.
(B) RESIDENCE: (CITY and STATE OR COUNTRY) SEOUL, KOREA

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:
 Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
 A check is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 190065 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
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 Applicant asserting small entity status. See 37 CFR 1.27
 Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
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NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature *[Signature]* Date September 25, 2017
Typed or printed name Jeff Lloyd Registration No. 35,589
Adjustment date 09/26/2017 HVUONG2

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	Jeong Wook An
				Art Unit	2836
				Examiner Name	James P. Evans
Sheet	1	of	2	Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
	F1	KR-10-2014-0113205-A (with English Abstract)		09-24-2014	LG INNOTEK CO., LTD	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	European Search Report dated August 8, 2017 in European Application No. 16206292.1.	
	R2	European Search Report dated August 29, 2017 in European Application No. 17157643.2.	

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	30367650
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Megan Kuchenthal
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	14-SEP-2017
Filing Date:	29-OCT-2012
Time Stamp:	15:55:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$180
RAM confirmation Number	091517INTEFSW15554100
Deposit Account	190065
Authorized User	Megan Kuchenthal

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SIDS10.pdf	205447	yes	3
			71d98778cbdd2aa339817f30c67f098c99e79c4d		
Multipart Description/PDF files in .zip description					
Document Description			Start	End	
Transmittal Letter			1	2	
Information Disclosure Statement (IDS) Form (SB08)			3	3	
Warnings:					
Information:					
2	Foreign Reference	F1.pdf	5982747	no	55
			ac9e9953904959a828de7bd69b8a6faa20885aff		
Warnings:					
Information:					
3	Other Reference-Patent/App/Search documents	R1.pdf	1132574	no	8
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Warnings:					
Information:					
4	Other Reference-Patent/App/Search documents	R2.pdf	1174288	no	8
			922d288248d5ce59f6d2523558077bd016f085ea		
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30726	no	2
			428b3dda17bb9a82f5e8edb900f5191a47446657		
Warnings:					
Information:					

Total Files Size (in bytes):

8525782

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.


National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on September 14, 2017.



Jeff Lloyd, Patent Attorney, Reg. No. 35,589

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : WIRELESS POWER RECEIVER AND METHOD OF
MANUFACTURING THE SAME

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. Copies of the cited references are attached.

The undersigned hereby certifies that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37

C.F.R. 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement.

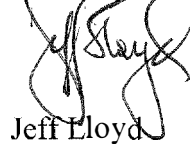
This Information Disclosure Statement is being submitted subsequent to the mailing of a Notice of Allowance but prior to payment of the Issue Fee. The fee of \$180.00 was paid at the time this statement was filed.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,



Jeff Lloyd

Patent Attorney

Registration No. 35,589

Phone No.: 352-375-8100

Fax No.: 352-372-5800

Address: Saliwanchik, Lloyd & Eisenschenk
A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/mrk

Attachments: Form PTO/SB/08; copies of references cited.



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NOTICE OF ALLOWANCE AND FEE(S) DUE

23557 7590 06/26/2017
SALIWANCIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

EXAMINER
EVANS, JAMES P
ART UNIT 2836 PAPER NUMBER

DATE MAILED: 06/26/2017

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.
If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.
If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".
For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23557 759 06/26/2017
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

_____ (Depositor's name)
_____ (Signature)
_____ (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/663,012	10/29/2012	Jeong Wook AN	SUN.LGL420	3575

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$960	\$960	09/26/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
EVANS, JAMES P	2836	307-104000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2</p> <p>_____ 3</p>
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
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5. Change in Entity Status (from status indicated above)

Applicant certifying micro entity status. See 37 CFR 1.29

Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/663,012 10/29/2012 Jeong Wook AN SUN.LGI.420 3575

23557 7590 06/26/2017
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

EXAMINER

EVANS, JAMES P

ART UNIT PAPER NUMBER

2836

DATE MAILED: 06/26/2017

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/663,012	Applicant(s) AN ET AL.	
	Examiner JAMES EVANS	Art Unit 2836	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to Amendments and Arguments of 3/27/2017.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1,3,7,9,11-13,19,21,23,25,30 and 32-39. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some *c) None of the:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/DANIEL CAVALLARI/
Primary Examiner, Art Unit 2836

/JAMES EVANS/
Examiner, Art Unit 2836

DETAILED ACTION

Response to Amendment

1. Arguments and amendments received on 3/27/2017 have been received and entered in the case. Cancellation of Claims 6, 22, 24, 26-29 and 31 is acknowledged, along with new claims 33-39. Claims 2, 4-5, 8, 10, 14-18 and 20 were previously cancelled.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: Claims 1, 3, 7, 9, 11-13, 19, 21, 23, 25, 30 and 32-39 are allowed based on the amendments of 3/27/2017.

Claim 1 is allowed because there is no prior art available nor obvious motivation to combine elements of the prior art of record to disclose a wireless power receiver comprising: a substrate comprising a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit; a coil unit disposed on the substrate, the coil unit comprising a first connection terminal, a second connection terminal, and a coil; and a short-range communication antenna disposed on the substrate and surrounding the coil; wherein the coil is configured to wirelessly receive power, wherein the coil is formed as a conductive pattern on or within the substrate, a conductive line wound at least two times and the conductive pattern has a spiral shape, wherein the first connection terminal is located at one end of the coil and the second connection terminal is located at the other end of the coil, wherein the coil unit overlaps the receiving space in a first direction perpendicular to an upper surface of

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the substrate; wherein the connecting unit is disposed in the receiving space and connected to the coil unit, wherein the connecting unit overlaps the receiving space in a second direction parallel to the upper surface of the substrate, and wherein the connecting unit comprises: a third connection terminal connected to the first connection terminal of the coil unit; and a fourth connection terminal connected to the second connection terminal of the coil unit.

Of the earlier cited prior art, Kanno (US 2012/0187767) in view of Waffenschmidt, et al. (US 2013/0069444) discloses a wireless power receiver with the power coil and antenna with a substrate as cited in the original office action, but does not disclose the substrate comprising a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit; wherein the connecting unit is disposed in the receiving space and connected to the coil unit, or wherein the connecting unit overlaps the receiving space in a second direction parallel to the upper surface of the substrate.

Of the newly cited IDS prior art, Takanobu (JPH10282232) discloses (e.g., Fig. 4) a wireless receiver with a substrate (e.g., 102.211), a coil unit disposed on the substrate, the coil unit comprising a first connection terminal, a second connection terminal, and a coil (e.g., inner circumference antenna 302, Paragraph [0043]: for transfer of power) and a short-range communication antenna (e.g., periphery antenna 301, Paragraph [0043]: for data communications) disposed on the substrate and surrounding the coil (e.g., as shown in Fig. 4); wherein the coil is configured to wirelessly receive power, wherein the coil is formed as a conductive pattern on or within

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the substrate, a conductive line wound at least two times and the conductive pattern has a spiral shape, wherein the first connection terminal is located at one end of the coil and the second connection terminal is located at the other end of the coil.

Takanobu does not disclose the substrate comprising a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit wherein the connecting unit is disposed in the receiving space and connected to the coil unit, wherein the coil unit overlaps the receiving space in a first direction perpendicular to an upper surface of the substrate; or wherein the connecting unit overlaps the receiving space in a second direction parallel to the upper surface of the substrate.

Therefore the invention is novel and non-obvious.

Claims 3, 7, 9, 11-13, 19, 21, and 25 are allowed because of their dependence on allowable Claim 1.

Claim 23 is allowed because there is no prior art available nor obvious motivation to combine elements of the prior art of record to disclose a wireless power receiver as claimed.

Of the earlier cited prior art, Kanno in view of Waffenschmidt discloses a wireless power receiver with the coil and antenna limitations, with a substrate as cited in the original office action, but does not disclose a substrate comprising a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit; wherein the connecting unit is disposed in the receiving space and connected to the coil unit, wherein the connecting unit overlaps the receiving

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space in a second direction parallel to the upper surface of the substrate, nor does Kanno in view of Waffenschmidt disclose wherein the connecting unit is disposed in the receiving space and wherein the coil unit is disposed on the connecting unit.

Of the newly cited IDS prior art, Takanobu discloses the same features in Claim 23 that are the same as discussed in claim 1, supra, and do not disclose the same essential features as discussed in claim 1, nor does Takanobu disclose wherein the coil unit is disposed on the connection unit.

Therefore the invention is novel and non-obvious.

Claims 30 and 32-39 are allowed because of their dependence on allowable Claim 23.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES P. EVANS whose telephone number is (571) 270-0639. The examiner can normally be reached on Monday-Friday 8 AM-5pm ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jared Fureman can be reached on 571-272-2391. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

Art Unit: 2836

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES P EVANS/
Examiner, Art Unit 2836

/DANIEL CAVALLARI/
Primary Examiner, Art Unit 2836

Notice of References Cited	Application/Control No. 13/663,012	Applicant(s)/Patent Under Reexamination AN ET AL.	
	Examiner JAMES EVANS	Art Unit 2836	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A US-2014/0091758 A1	04-2014	Hidaka; Akio	H01F38/14	320/108
*	B US-2007/0095913 A1	05-2007	Takahashi; Isao	G06K7/10336	235/451
C	US-				
D	US-				
E	US-				
F	US-				
G	US-				
H	US-				
I	US-				
J	US-				
K	US-				
L	US-				
M	US-				

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
N					
O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
U					
V					
W					
X					

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	824	H02J50/\$.cpc. AND (H01Q\$.cpc. OR H05K\$.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 13:01
L5	311	L4 and (@pd or @ptad or @prad or @ad or @lad)<"20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/06/15: 13:04
L6	21	L5 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (communicat\$3 or data) NEAR9 (surround\$3 enclos\$4 circld\$3 encircl\$3 outer outermost inner innermost inside outside) NEAR9 (coil loop winding antenna inductor inductance inductive pattern conductive)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 13:06
L7	127	L5 AND (substrate or base or core or "ferrite magnet layer" sheet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 13:07
L8	118	L5 AND (substrate or base or core or "ferrite magnet layer" sheet) NOT L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 13:24
L10	193	L5 NOT L8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 13:32
L11	1995863	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4 or COMMUNICAT\$3 or charg\$3)) OR (COMMUNICATION ADJ TERMINAL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 13:41

EAST Search History

L13	85	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$).did. or (US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$ or US-20140091758-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$ or US-7712672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$ or JP-2004364199-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.	US-PGPUB; ORPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/15 13:43
L15	118	L5 AND (substrate or base or core or "ferrite magnet layer" sheet "magnetic shield") NOT L6	US-PGPUB; ORPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15 13:51
L16	17285	L11 AND (((coil loop winding antenna inductor inductance inductive pattern conductive or aerial) NEAR5 (communicat\$3 or data or signal or	US-PGPUB; ORPAT; USOCR; FPRS;	OR	ON	2017/06/15 13:53

		information) NEAR9 (surround\$3 enclos\$4 circl\$3 encircl\$3 outer outermost inner innermost inside outside) NEAR9 (coil loop winding antenna inductor inductance inductive pattern conductive)))	EPO; JPO; DERWENT; IBM_TDB			
L18	12720	L16 AND (substrate or base or core or "ferrite magnet layer" sheet "magnetic shield")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 13:55
L35	2933	L16 AND ((substrate or base NOT (based or basis or base ADJ station) or core or "ferrite magnet layer" sheet "magnetic shield") WITH (space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or cutout or "cut out" or "lay out" or lay-out or "laid out" OR concave or area OR slit))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 15:08
L45	179	L35 AND (connect\$3 NEAR7 (overlap\$5 overhang\$3 fit fitt\$3 insert\$3 slid\$3) NEAR5 (space or spacing or hole or area or void or opening or slot or slotted or slit or gap or notch or notched or recess or recessed or shape or shaped or cut-out or cutout or "cut out" or concave))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 15:40
L48	33	L45 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3 overhang\$3) NEAR5 (space or spacing or area or void or hole or opening or slot or slotted or slit or gap or notch or notched or recess or recessed or shape or shaped or cut-out or cutout or "cut out" OR concave)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 15:43
L49	2	L48 AND ((307/104).ccls. OR (320/108).ccls. OR (H02J5/005).cpc. OR (H02J7/025).cpc. OR (H02J17/00).cpc. OR (H02J50/\$).cpc. OR (H04B5/0025-0093).cpc. OR (B60L11/182).cpc. OR (B60L11/1829-1831).cpc. OR (Y02T90/122).cpc. OR (H01F38/14).cpc. OR (H01F2038/143-146).cpc. OR (A61B1/00029).cpc. OR (A61N1/3787).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 15:43
L59	4	L48 AND ((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (spiral spirally or helix or helically))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 16:04
L60	40	L13 AND ((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (spiral spirally or helix or helically))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2017/06/15: 16:05

			EPO; JPO; DERWENT; BM_TDB			
L61	1	JP2008027015	JPO	OR	ON	2017/06/15: 16:19
L62	85	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$).did. or (US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$ or US-20140091758-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$ or US-7712672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$ or JP-2004364199-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/15: 16:20
L63	202614	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2017/06/15: 16:33

			IBM_TDB			
L64	2	L48 AND L63	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/15: 16:34
S1	1	"20130249302"	US-PGPUB; USPAT	OR	ON	2015/01/20: 10:41
S2	8	("20050046573" "20080122570" "20080154178" "20080197957" "20090058358" "20100277004" "20120057322" "6008622").PN.	US-PGPUB; USPAT	OR	ON	2015/01/20: 10:51
S3	175746	(coil\$1 or winding\$1) WITH (power or energy or current) WITH (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20: 11:23
S4	5375	(substrate or base or core or "ferrite magnet layer") WITH (space or shape or shaped) WITH (connector or "connecting unit") WITH (terminal or lead or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20: 11:34
S5	175746	(coil\$1 or winding\$1) WITH (power or energy or current) WITH (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20: 12:06
S6	5375	(substrate or base or core or "ferrite magnet layer") WITH (space or shape or shaped) WITH (connector or "connecting unit") WITH (terminal or lead or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20: 12:06
S7	158	S6 AND S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20: 12:06
S8	398217	(coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20: 12:23
S9	27303	(substrate or base or core or "ferrite magnet layer") SAME (space or shape or shaped) SAME (connector or "connecting unit") SAME (terminal or	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/01/20: 12:23

		lead or "connecting land")	EPO; JPO; DERWENT; IBM_TDB			
S10	1934	S9 SAME S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20; 12:24
S11	392	WO adj "2008053599" WO adj "2013174340" EP adj "1870984" WO adj "2012169728" WO adj "2006127829" EP adj "0037921" WO adj "2005034152" WO adj "1992014254" WO adj "2006134712" WO adj "2007007516" WO adj "2007055265" "20030006657" EP adj "2642632" EP adj "2202499" EP adj "2642632" CN adj "1110225" "3634878" "3848208" "20130249302" WO adj "2006047953" CN adj "1151100" WO adj "2013149781" CN adj "103326473" JP adj "2012235630" "5724018" CN adj "100466382" CN adj "101071909" EP adj "2367263" WO adj "2011147451" WO adj "2014183352" EP adj "1487087" WO adj "2004045050" WO adj "2009070705" JP adj "2013138404" WO adj "2004030845" EP adj "2309620" JP adj "2005065018" JP adj "2004023961" JP adj "2010110168" EP adj "2256751" WO adj "2009155030" EP adj "2642591" WO adj "2012015839" EP adj "2814047" JP adj "2004072867" "2091798" WO adj "1993013532" WO adj "2008135507" "3660791" WO adj "2006101049" WO adj "2002046653" WO adj "2007049788" JP adj "2001144642" "3146419" EP adj "1868280" EP adj "1883998" JP adj "2014023281" "3792410" CN adj "201340774" "20060278387" CN adj "1855761" JP adj "2013157917" EP adj "1717967" CN adj "101189692" CN adj "102056328" "3848205" WO adj "2013022255" JP adj "2014027102" EP adj "1821556" "3767102" EP adj "2375531" JP adj "2008017141" WO adj "2005034307" JP adj "2010093386" EP adj "2629361" WO adj "2005030528" CN adj "1941230" "3163840" "3863040"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20; 13:52
S12	299	((substrate or base or core or "ferrite magnet layer"))(space or shape or shaped) (connector or "connecting unit") (terminal or lead or "connecting land") or (coil or winding) or power or energy or current or terminal or relectrode) AND S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20; 13:58
S13	3	EP adj "2642632"	US-PGPUB;	OR	ON	2015/01/20;

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:51
S14	22	((US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$.did. or (WO-2013120710-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or US-20130249302-\$.did.	US-PGPUB; USPAT; FPRS; JPO; DERWENT	OR	ON	2015/01/20 15:01
S15	22	((substrate or base or core or "ferrite magnet layer")(space or shape or shaped) (connector or "connecting unit") (terminal or lead or "connecting land")or (coil or winding) or power or energy or current or terminal or relectrode) AND S14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 15:01
S16	2	"20080164840"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 17:13
S17	6	"39593692".FMID.	US-PGPUB; USPAT; FPRS	OR	ON	2015/01/20 17:15
S18	2	"20120044114"	US-PGPUB; USPAT	OR	ON	2015/01/20 17:26
S19	3	((("Jeong Wook") near2 (AN)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:52
S20	2	((("Jeong Wook") near2 (AN)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 08:54
S21	8	((("Jung Oh") near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:55
S22	1	((("Jung Oh") near2 (LEE)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 08:57
S23	3	((("Sung Hyun") near2 (LEEM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:58
S24	0	((("Sung Hyun") near2 (LEEM)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 09:04
S25	7	((("Yang Hyun") near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 09:05
S26	3	((("Yang Hyun") near2 (KIM)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 09:19

S27	5	"47598569".FMI.D.	US-PGPUB; USPAT; FPRS	OR	ON	2015/01/23 11:34
S28	24	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$).did. or (WO-2013120710-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$).did. or (WO-2013065245-\$ or CN-203326731-\$).did.	US-PGPUB; USPAT; FPRS; JPO; DERWENT	OR	ON	2015/01/26 13:45
S29	2993903	(wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or remote\$2 or ((free or without or lack\$3 or no or less) near2 (contact\$3 or connect\$3)) or (RF or R F or radio\$1frequenc\$3 or radio frequency) near3 (transmission or network\$3 or LAN or control\$3) or connectionless)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:02
S30	1440492	(receiv\$3 or accept\$3 or obtain\$3 or recover\$3 or receipt or retriev\$3 or acquir\$3 or acquisition) near3 (spac\$3 or hole or opening or slot or gap or notch or port)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:07
S31	3326212	(predetermin\$5 or predefined or set or prescribed or fixed or preselect\$3 or establish\$3 or prestablish\$3 or standard or desired or reference or known or specific\$4 or select\$4 or fixed or defin\$4 or precis\$3 or certain or preset or particular) near3 (size or shape or dimension or design or pattern or cutout or configuration or layout)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:10
S32	2674608	(coil or transmit\$4 or transmission or receiv\$3 or transceiv\$3 or antenna\$2 or transponder) near3 (unit or module or circuit or assembly or device)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:19
S33	2115289	(connect\$3 or link\$3 or coupl\$3 or join\$3) near3 (terminal or node or lead or electrode or contact)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:22
S34	80414	S29 SAME S30	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:28
S35	2254	S34 SAME S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:29
S36	328	S35 SAME S32	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:30
S37	52	S36 SAME S33	US-PGPUB;	ADJ	ON	2015/01/26

EAST Search History

			USPAT; USOCR			14:30
S38	133047	S29 SAME S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:31
S39	2254	S38 SAME S30	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:31
S40	5809	S30 near3 S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:32
S43	27	jp and "2006042519"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 12:52
S44	0	jp and "04-51115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:35
S45	4911	jp and "rotary transformer"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:36
S46	0	jp and "rotary transformer" and "flexible substrate (35)"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:37
S47	20	jp and "rotary transformer" and "flexible substrate"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:37
S51	2	"4-51115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:42
S52	61	"hitachi ferrite" and "rotary transformer"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:49

EAST Search History

S53	17	"hitachi ferrite" and "rotary transformer" and grooves	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:52
S57	4554	"satoshi" AND "shinji"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/01/28 09:15
S58	100	murata AND S57	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/01/28 09:15
S59	2	JP2010022098A	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/01/28 10:40
S60	38	"6008622"	US-PGPUB; USPAT	OR	ON	2015/01/28 17:01
S61	1	"6008622" and Norio	US-PGPUB; USPAT	OR	ON	2015/01/28 17:02
S62	1	"17402302".FMID.	US-PGPUB; USPAT; FPRS	OR	ON	2015/01/28 17:03
S63	336	H04B5/0037	US-PGPUB; USPAT	OR	ON	2015/01/28 17:30
S64	42	H04B5/0081	US-PGPUB; USPAT	OR	ON	2015/01/28 17:31
S65	38	H01F41/14	US-PGPUB; USPAT	OR	ON	2015/01/28 17:32
S66	1111	H02J17/00	US-PGPUB; USPAT	OR	ON	2015/01/28 17:55
S67	32971	H02J17/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/28 17:55
S68	6341	H01F41/14	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29 08:19
S69	20594	H01Q7/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/01/29 08:27

			DERWENT; IBM_TDB			
S70	1439	H04B5/0081	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29 08:29
S71	21809	S70 OR S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29 08:29
S72	394	S71 and ("rectang\$4" OR "square")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29 08:38
S73	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/05/19 08:45
S74	18	S73 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/19 08:48
S92	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:16
S93	771	S92 AND ((substrate or base or core or "ferrite magnet layer") AND (space	US-PGPUB; USPAT;	OR	ON	2015/08/11 17:16

		or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S94	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S95	771	S94 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S96	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S95	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S97	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S98	771	S97 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S99	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S98	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S100	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S101	771	S100 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23

S102	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S101	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S103	72	((coil or winding or antenna or resonator or "receiving element") WITH conductive WITH (layer or pattern)) AND S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S104	934	S100 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:29
S105	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S106	934	S105 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S107	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S108	38	((US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/11 17:35

		or JP-2012191134-\$.did. or (WO-2013065245-\$. or CN-203326731-\$. or JP-2010022098-\$.).did.				
S109	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S110	934	S109 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S111	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S112	0	S111 AND S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S113	165	S111 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:41
S114	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:09
S115	372	S114 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:09
S116	0	S115 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/08/11 18:10

			IBM_TDB			
S117	389	S114 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receive\$3 or transceive\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:11
S118	0	S117 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:11
S119	136746	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S108) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:13
S120	27	S119 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:14
S121	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 13:32
S122	136746	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S121) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:32
S123	27	S122 and S121	US-PGPUB;	OR	ON	2015/08/12

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:32
S124	11	S121 NOT S123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12 13:32
S125	136730	(H04B5/0037.cpc. H04B5/0081 cpc H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad- "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S126	934	S125 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S127	0	S126 and S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S128	136730	(H04B5/0037.cpc. H04B5/0081 cpc H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad- "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:56
S129	389	S128 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:56
S130	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S126	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:11
S131	160	S130 and spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/08/12 14:11

			EPO; JPO; DERWENT; IBM_TDB			
S132	165	S130 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:13
S133	160	S132 AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:13
S134	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12 14:34
S135	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 14:36
S136	385	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S135) AND S134	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:36
S139	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or	US-PGPUB; USPAT;	ADJ	ON	2015/08/12 15:22

		"connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S140	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 15:22
S141	385	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S140) AND S139	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 15:22
S142	253	S141 and ((space or notch or cutout or "cut-out") SAME(connector connect\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 15:22
S144	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12 16:04
S145	38	(US-20130249302-\$ or US-	US-PGPUB;	OR	ON	2015/08/12

		20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$.did. or (US-3153139-\$.did. or (WO-2013120710-\$ or WO-2010133995-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$.did.	USPAT; USOCR; FPRS; JPO; DERWENT			16:04
S146	385	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S145) AND S144	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12; 16:04
S147	253	S146 and ((space or notch or cutout or "cut-out") SAME(connector connect\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12; 16:04
S148	198	S147 and ((first near3 (connector connect\$3 terminal) SAME (second near3 (connector connect\$3 terminal))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12; 16:04
S149	28	S147 and ((first ADJ (connector connect\$3 terminal) SAME (second ADJ (connector connect\$3 terminal))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12; 17:00
S150	1	S147 and ((first ADJ (connector connect\$3 terminal) SAME (second ADJ (connector connect\$3 terminal)))) AND @ad<"20121029"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12; 17:02
S151	2	S147 and ((first ADJ (connector connect\$3 terminal) SAME (second ADJ (connector connect\$3 terminal)))) AND @ad<"20121030"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/08/12; 17:02

			DERWENT; IBM_TDB			
S152	6	S147 and ((first NEAR2 (connector connect\$3 terminal) SAME (second NEAR2 (connector connect\$3 terminal)))) AND @ad<"20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 17:11
S153	0	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	JPO	ADJ	ON	2015/08/13 11:35
S154	11	((substrate or base or core or "ferrite magnet layer") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	JPO	ADJ	ON	2015/08/13 11:35
S155	9194	H01F38/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/13 11:59
S156	5888	H01F38/14.cpc. and @ad<"20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/13 12:04
S157	164	S156 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed or etch\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR		2015/08/13 12:05
S158	40	S156 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") WITH (layer or pattern or PCB or printed or etch\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/08/13 12:06

			IBM_TDB			
S161	477	S156 AND (substrate "PCB" semiconductor silicon) AND (terminal port connector connection) AND (coil\$1 or winding\$1 or resonator or secondary or inductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 13:10
S162	293	S156 AND (substrate "PCB" semiconductor silicon) AND (terminal port connector connection) AND (space or notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 13:11
S164	30	S156 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 13:18
S165	8	"8,092,251"	USPAT	OR	ON	2015/08/13 19:28
S166	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/13 19:33
S167	5888	H01F38/14.cpc. and @ad< "20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/13 19:34

S168	30	S167 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 19:34
S169	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/13 19:35
S170	5	S169 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 19:35
S171	21496	713/3???.ccls.	US-PGPUB; USPAT	OR	ON	2015/08/13 19:52
S172	10	S171 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 19:53
S173	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/17 08:34

		<p>or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.</p>				
S174	21	S173 and flexible	<p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p>	OR	ON	2015/08/17 08:34
S175	21	<p>S173 and flexible and ((uniform\$2 or consistent\$2 or consistency or perfect\$3 or balanc\$3 or equaliz\$3 or overcom\$3 or eliminat\$3 or advantag\$6 or benefit\$4 or beneficially or allow\$3 or effect\$3 or less or great\$3 or better\$3 or more or most or improv\$5 or simplify\$3 or well or simplification or fewer or fewest or least or better or best or superior or increas\$3 or decreas\$3 or enhanc\$5 or lower\$3 or lessen\$3 or short\$5 or higher or highest or lighter or lightest or brighter or brightest or cheap\$3 or fast\$3 or long\$3 or lengthen\$3 or shorten\$3 or extend\$3 or wide\$2 or prolong\$3 or prevent\$3 or eliminat\$5 or mitigat\$3 or without or effective\$4 or efficien\$3 or reduc\$4 or compact\$3 or small\$3 or enhanc\$3 or boost\$3 or simple\$2 or simplify\$3 or easy or ease\$2 or easi\$3 or inhibit\$3 or \$savin\$1 or environment\$4 or \$1friendly or sav\$3 or safe\$2 or protect\$3 or possible or possibilit\$3 or mak\$3 or possible or possibilit\$3 or solv\$2 or fix\$2 or solution or maximum or maximiz\$5 or accomplish\$4 or minimiz\$5 or minimum or optimiz\$5 or low\$1cost or reliable or reliably or avoid\$3 or excellent or (very ADJ high) or (very ADJ low) or stable or stabili\$6 or portable or modular or slow\$3 or</p>	<p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p>	OR	ON	2015/08/17 09:46

		speed\$3 or hasten\$3 or strenghthen\$3 or resilien\$3))				
S176	1	S173 and "modular power transmitting system"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:02
S177	358681	(coil winding) SAME (groove\$1 recess\$2 indentation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:17
S178	5890	H01F38/14.cpc. and @ad< "20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/17 11:18
S179	380	S178 AND (coil winding) SAME (groove\$1 recess\$2 indentation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:18
S180	180	S178 AND (coil winding) SAME (groove\$1 recess\$2 indentation) SAME (core substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:19
S181	94	S178 AND (coil winding) SAME (groove\$1 indentation) SAME (core substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:22
S182	3191265	(wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or remote\$2 or ((free or without or lack\$3 or no or less) near2 (contact\$3 or connect\$3)) or (RF or R F or radio\$1frequenc\$3 or radio frequency) near3 (transmission or network\$3 or LAN or control\$3) or connectionless)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/10/13 09:14
S183	1498071	(receiv\$3 or accept\$3 or obtain\$3 or recover\$3 or receipt or retriev\$3 or acquir\$3 or acquisition) near3 (spac\$3 or hole or opening or slot or gap or notch or port)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/10/13 09:14
S184	3523990	(predetermin\$5 or predefined or set or prescribed or fixed or preselect\$3 or establish\$3 or prestablish\$3 or	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/10/13 09:14

		standard or desired or reference or known or specific\$4 or select\$4 or fixed or defin\$4 or precis\$3 or certain or preset or particular) near3 (size or shape or dimension or design or pattern or cutout or configuration or layout)				
S185	2858589	(coil or transmit\$4 or transmission or receiv\$3 or transceiv\$3 or antenna\$2 or transponder) near3 (unit or module or circuit or assembly or device)	US-PGPUB; USPAT; USOCR	AD	ON	2015/10/13
S186	7009	S182 AND S183 AND S184 and S185 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:14
S187	2229	S186 AND ((substrate or base or core or "ferrite magnet layer") WITH (layer or pattern or PCB or printed or etch\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:19
S188	437	S186 AND ((substrate or base or core or "ferrite magnet layer") WITH (conduct\$3 NEAR2(layer or pattern or PCB or printed or etch\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:21
S189	171977	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. H01F38/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:23
S190	15	S188 AND S189	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:23
S191	17651	S182 AND S183 AND S184 and S185 and (radial (helically or helix) Near3 (flat planar))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:37
S192	681	S191 AND ((substrate or base or core or "ferrite magnet layer") WITH (conduct\$3 NEAR2(layer or pattern or PCB or printed or etch\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:38
S193	6	S192 AND S189	US-PGPUB;	OR	ON	2015/10/13

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			09:39
S194	25	(coil WITH overlap\$4 NEAR4 connect\$3) AND S189	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:44
S195	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/10/13 13:43
S196	15	S195 and overlap\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 13:43
S197	1	"20120248981"	US-PGPUB	OR	ON	2015/10/13 13:44
S198	1657391	(receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16 10:30
S202	51	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$	US-PGPUB; USPAT;	OR	ON	2016/01/16 10:52

		or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$.did. or (US-3153139-\$.did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$.did.	USOCR; FPRS; JPO; DERWENT			
S207	546319	S198 AND (((receiv\$3 or accept\$3 or receipt or retriev\$3 or acquir\$3 or acquisition or fit\$4 or accommodat\$3) near3 (spac\$3 or hole or opening or slot\$3 or gap or notch\$2 or port or area or shaped or cut-out or configured or size or shape or dimension or design or pattern or cutout or "cut out" or configuration or layout)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16 11:03
S208	1657391	(receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16 11:11
S209	1657391	(receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16 11:17
S210	1130997	S209 AND (space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16 11:17
S211	723742	(coil inductor inductance winding antenna) WITH (conductive	US-PGPUB; USPAT;	OR	ON	2016/01/16 11:28

		conducting copper etch\$3 PCB printed layer pattern)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S212	32986	S211 SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/16; 11:36
S213	7222	S212 AND S210	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/16; 11:38
S214	723868	(coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 09:22
S215	32995	S214 SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 09:22
S216	51	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/19; 09:22

		JP-2010022098-\$.did.				
S217	6	S215 AND S216	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 09:22
S218	1658038	(receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/19; 09:55
S219	287249	S218 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or base))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/19; 09:55
S220	3911	S215 AND S219	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 10:08
S221	253	S220 AND (third ADJ2 (terminal electrode end terminus "connecting land" end contact pin)) AND (fourth ADJ2 (terminal electrode end terminus "connecting land" end contact pin))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 10:15
S222	167	S221 and @ad<"20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 10:23
S223	33	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (overlap\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 13:51
S224	62	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (cross\$3 across))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19; 14:23
S225	6	S221 AND ((coil loop inductor	US-PGPUB;	OR	ON	2016/01/19;

		inductance pattern conductive) NEAR3 (cross\$3 across)) NEAR3 (space gap)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:13
S226	2	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (overlap\$4)) NEAR3 (space gap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19 15:18
S227	2	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (top)) NEAR3 (substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19 15:29
S228	57	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/19 16:47
S237	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/20 09:57

		20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.				
S238	57	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; OR USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/20 09:57
S239	12	S238 NOT S237	US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/20 09:57

EAST Search History

S240	1	S238 AND Kato	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/20 10:07
S241	17	("20050072595" "20050116874" "20060166506" "20070020932" "20070254432" "20070279002" "20080129439" "20080200210" "20080266748" "20100289341" "20100308187" "20110127070" "20110267248" "20110285494" "20120019075" "20120049986" "20140091614").PN.	US-PGPUB; USPAT	OR	ON	2016/05/06 15:59
S242	74	(US-20130249302-\$ or US- 20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US- 20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US- 20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US- 20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US- 20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US- 20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US- 20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US- 20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US- 20130271328-\$).did. or (US- 20110127070-\$ or US-20050072595-\$ or US-20120049986-\$ or US- 20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US- 20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US- 20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US- 20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US- 20110267248-\$ or US-20070254432- \$).did. or (US-6008622-\$ or US- 5572180-\$ or US-3936931-\$ or US- 5294749-\$ or US-6876287-\$ or US- 5175525-\$ or US-8922321-\$ or US- 8653927-\$ or US-7392013-\$ or US- 8092251-\$ or US-8947189-\$ or US- 4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO- 2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380- \$).did. or (JP-2013157917-\$ or JP- 2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP- 2011109546-\$).did. or (WO- 2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/05/06 16:01
S243	1713929	(receiv\$3or receptionor pick-up or	US-PGRUB;	ADJ	ON	2016 /05/06

		pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:03
S245	1	WO ADJ "2012150293"	US-PGPUB; USPAT; DERWENT	OR	ON	2016/05/06 16:16
S246	0	"2005116874".PN.	US-PGPUB; USPAT	OR	ON	2016/05/06 16:21
S247	1	"20050116874".PN.	US-PGPUB; USPAT	OR	ON	2016/05/06 16:21
S248	1	"20140091640".pn.	US-PGPUB	ADJ	ON	2016/05/06 16:35
S249	76	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-20110127070-\$ or US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/05/06 16:36

S250	47	S249 AND S243	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/06 16:36
S251	31	S250 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or base))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/06 16:39
S252	723389	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 17:02
S253	2787	S252 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)) SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second 2nd another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 17:19
S254	901	S253 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch notched)) OR (connect\$3 coupl\$3) WITH (under beneath below))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 17:50
S255	648	S254 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or PCB or base))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/07 17:51
S256	245	S255 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)) WITH ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 18:06
S257	45	S256 AND ((coil inductor inductance winding antenna) WITH (third 3rd) ADJ2 (terminal electrode end terminus "connecting land" end) WITH (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 18:14

S258	349	S252 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) NEAR5 substrate) SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second 2nd another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 18:36
S259	92	S258 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch notched)) OR (connect\$3 coupl\$3) WITH (under beneath below))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 18:44
S260	272	S252 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) NEAR5 substrate) SAME ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:00
S261	27	S260 AND ((coil inductor inductance winding antenna) WITH (third 3rd) ADJ2 (terminal electrode end terminus "connecting land" end) WITH (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:01
S262	11	S261 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch notched)) OR (connect\$3 coupl\$3) WITH (under beneath below))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:01
S263	9	S261 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch notched)) OR (connect\$3 coupl\$3) WITH (under beneath below)) AND ((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4) NEAR3 (receiv\$3 reception))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:04
S288	81	(US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/10/04 09:21

		20090115681-\$ or US-20130271328-\$ or US-20110127070-\$ or US-20050072595-\$).did. or (US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.				
S290	1	S288 and kuk.inv.	US-PGPUB; USPAT	OR	ON	2016/10/04 09:32
S292	81	(US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$ or US-20050072595-\$).did. or (US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/10/04 13:42

		or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.				
S293	1	"20130249302"	US-PGPUB; USPAT	OR	ON	2016/10/04 13:46
S294	38	S292 and ((coil WITH conductive OR conducting) OR etch\$3 OR plating or deposited or deposition or depositing)	US-PGPUB; USPAT	OR	ON	2016/10/04 13:57
S295	41	S292 and (coil WITH conductive OR conducting or conductor)	US-PGPUB; USPAT	OR	ON	2016/10/04 14:03
S296	41	S292 and ((coil or inductor) WITH conductive OR conducting or conductor)	US-PGPUB; USPAT	OR	ON	2016/10/04 14:04
S297	1	"20130106198".pn.	US-PGPUB; USPAT	OR	ON	2016/12/08 12:10
S298	82	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$).did. or (US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/12/08 12:11

		or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.				
S300	1967455	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4 or COMMUNICAT\$3)) OR (COMMUNICATI ON ADJ TERMINAL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 15:53
S301	9420	S300 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (communicat\$3 or data) NEAR9 (surround\$3 enclos\$4 circld\$3 encircld\$3 outer outermost inner innermost inside outside) NEAR9 (coil loop winding antenna inductor inductance inductive pattern conductive)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 16:12
S302	1	"7712672".pn.	US-PGPUB; USPAT	OR	ON	2017/06/14 16:29
S303	84	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$).did. or (US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/14 16:31

		20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$ or US-7712672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$ or JP-2004364199-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.				
S304	6	S303 and S301	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/14 16:31
S305	0	S301 and (connect\$3) NEAR5 (overlap\$5 overhang\$3) NEAR5 (space area) WITH (parallel\$2) NEAR10 (substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 16:47
S306	223	S301 and (parallel\$2) NEAR10 (substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 16:49
S307	6	S304 and (parallel\$2 plane planar or coplanar or co-planar OR (structure or size or shape) NEAR5 ("same" correspond\$3 or identical or identically) WITH (substrate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 17:11
S310	1994403	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4 or COMMUNICATION\$3 or charg\$3)) OR (COMMUNICATION ADJ TERMINAL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 18:43

S311	85	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$).did. or (US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$ or US-20140091758-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$ or US-7712672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$ or JP-2004364199-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/14 18:52
S312	494304	S310 and (parallel\$2 plane planar or coplanar or co-planar OR (structure or size or shape) NEAR5 ("same" correspond\$3 or identical\$2) WITH substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 18:53
S313	2108	S310 and (connect\$3) AND (overlap\$5 overhang\$3) AND (receiv\$3 ADJ (space area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2017/06/14 18:59

			DERWENT; IBM_TDB			
S314	0	S311 AND S313	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 18:59
S315	1	"20130249302"	US-PGPUB; USPAT	OR	ON	2017/06/14 19:06
S316	1	S315 AND (overlap\$5 overhang\$3 connect\$3 ADJ10 under ADJ2 coil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 19:09
S317	54	S311 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out" OR concave) WITH (substrate or board or printed-circuit-board or PCB or base or sheet))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/06/14 19:31
S318	5	S310 and (connect\$3) AND (connect\$3 ADJ10 under ADJ2 coil) AND (receiv\$3 ADJ (space area))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14 19:38
S319	5	S317 and (connect\$3 NEAR7 (overlap\$5 overhang\$3) NEAR5 (space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out" OR concave) OR connect\$3 ADJ10 under ADJ2 coil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/14
S321	82	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/15 08:00

		20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$).did. or (US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.				
S322	85	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$).did. or (US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/15: 08:00

		or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$ or US-20140091758-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$ or US-7712672-\$.did. or (US-3153139-\$.did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$ or JP-2004364199-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$.did.				
S323	3	S322 NOT S321	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2017/06/15 08:00

6/ 15/ 2017 4:38:25 PM

C:\Users\jevans2\Documents\EAST\Workspaces\13663012.wsp

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L50	1023012	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4 or COMMUNICAT\$3 or charg\$3)) OR (COMMUNICATION ADJ TERMINAL)	US-PGPUB; USPAT	OR	ON	2017/06/15 15:47
L51	2681	L50 AND (((coil loop winding antenna inductor inductance inductive pattern conductive or aerial) NEAR5 (communicat\$3 or data or signal or information) NEAR9 (surround\$3 enclos\$4 circl\$3 encircl\$3 outer outermost inner innermost inside outside) NEAR9 (coil loop winding antenna inductor inductance inductive pattern conductive))).clm.	US-PGPUB; USPAT	OR	ON	2017/06/15 15:48
L52	63	"Term Removed" or "Term Removed" or "Term Removed" or "Term Removed" or "Term Removed" or "Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2017/06/15 15:49
L53	5	L52 and L51	US-PGPUB; USPAT	OR	ON	2017/06/15 15:49
L54	222	L51 AND ((substrate or base NOT (based or basis or base ADJ station) or core or "ferrite magnet layer" sheet "magnetic shield") WITH (space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or cutout or "cut out" or "lay out" or lay-out or "laid out" OR concave or area OR slit)).clm.	US-PGPUB; USPAT	OR	ON	2017/06/15 15:51
L55	8	L54 AND (connect\$3 NEAR7 (overlap\$5 overhang\$3 fit fitt\$3 insert\$3 slid\$3) NEAR5 (space or spacing or hole or area or void or opening or slot or slotted or slit or gap or notch or notched or recess or recessed or shape or shaped or cut-out or cutout or "cut out" or concave)).clm.	US-PGPUB; USPAT	OR	ON	2017/06/15 15:52
L56	1	L55 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3 overhang\$3) NEAR5 (space or spacing or area or void or hole or opening or slot or slotted or slit or gap or notch or notched or recess or recessed or shape or shaped or cut-out or cutout or "cut out" OR concave))).clm.	US-PGPUB; USPAT	OR	ON	2017/06/15 15:59
L58	0	L56 AND ((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (spiral spirally or helix	US-PGPUB; USPAT	OR	ON	2017/06/15 16:03

		or helically)).clm.				
L65	23010	((H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.))	US-PGPUB; USPAT	OR	ON	2017/06/15: 16:35
L66	0	L56 AND L65	US-PGPUB; USPAT	OR	ON	2017/06/15: 16:35
S229	104681	((coil inductor inductance winding antenna loop) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19: 16:09
S230	21955	S229 AND ((terminal electrode end terminus "connecting land" end) NEAR3 (second another other)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19: 16:11
S231	4812	S230 AND (receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency))).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19: 16:12
S232	1227	S231 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or base)).clm.	US-PGPUB; USPAT	ADJ	ON	2016/01/19: 16:14
S233	35	S232 AND (third ADJ2 (terminal electrode end terminus "connecting land" end contact pin)) AND (fourth ADJ2 (terminal electrode end terminus "connecting land" end contact pin)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19: 16:20
S234	0	S233 AND ((coil loop inductor inductance pattern conductive) NEAR3 (overlap\$4) NEAR3 (space gap notch notched)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19: 16:41
S235	0	S233 AND ((coil loop inductor inductance pattern conductive) NEAR3 (cross\$3 across)) NEAR3 (space gap notch).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19: 16:43
S236	0	S233 AND (((coil loop inductor inductance pattern conductive) NEAR3 (top)) NEAR3 (substrate)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19: 16:46
S264	107183	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07: 18:56
S265	23	S264 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) NEAR5 substrate) SAME ((second 2nd)ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07: 19:05
S266	2	S265 AND ((coil inductor inductance	US-	OR	ON	2016/05/07

		winding antenna) WITH (third 3rd) ADJ2 (terminal electrode end terminus "connecting land" end) WITH (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT			19:06
S267	1	"20130249302"	US-PGPUB; USPAT	OR	ON	2016/05/07 19:07
S268	31	S264 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) WITH substrate) SAME ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:08
S269	355	S264 AND (((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) WITH substrate)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:10
S270	66	S269 AND ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:11
S271	9	S270 AND ((fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:12
S272	66	S270 AND ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:12
S273	104	S269 AND ((space or spacing or hole or opening or slot or slotted or gap or notch\$2 or recess\$2 or shape\$2 or cut-out or design or designed or pattern\$2 or cutout or "cut out" or configured or configuration or layout or "lay out" or layout or "laid out") WITH (substrate or board or printed-circuit-board or PCB or base) WITH (connect\$3 coupl\$3)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:23
S274	2	S273 AND ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end) AND (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:26
S291	2	"Term Removed"	US-PGPUB	OR	ON	2016/10/04 09:21
S299	1	"Term Removed"	US-PGPUB	OR	ON	2016/12/08 12:11
S308	1	"Term Removed"	US-PGPUB	OR	ON	2017/06/14 15:29
S309	1	"Term Removed"	US-PGPUB	OR	ON	2017/06/14 16:31
S320	1	"Term Removed"	US-PGPUB	OR	ON	2017/06/14 18:52

6/ 15/ 2017 4:38:42 PM

C:\Users\jevans2\Documents\EAST\Workspaces\13663012.wsp

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	Jeong Wook An
				Art Unit	2836
Sheet	1	of	1	Examiner Name	
				Attorney Docket Number	SUN.LGI.420

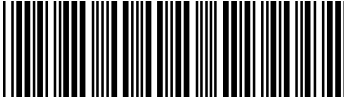
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1	JP	2001027687-A	01-30-2001	ISHIKAWAJIMA HARIMA HEAVY IND	ALL	

Examiner Signature	/JAMES P EVANS/	Date Considered	06/14/2017
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Search Notes 	Application/Control No. 13663012	Applicant(s)/Patent Under Reexamination AN ET AL.
	Examiner JAMES P EVANS	Art Unit 2836

CPC- SEARCHED		
Symbol	Date	Examiner
H04B5/0037	1/29/2015	JPE
H04B5/0081	1/29/2015	JPE
H01F41/14	1/29/2015	JPE
H01F38/14	8/13/2015	JPE
Re-searched all symbols above	1/19/2016	JPE
Re-searched all symbols above	5/7/2016	JPE
Reviewed against new art	12/8/2016	JPE
Reviewed all above against amended claims	6/15/2017	JPE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
307	104	1/29/2015	JPE
713	300	8/13/2015	JPE
Re-searched all above	Re-searched all subclasses above	1/19/2016	JPE
Re-searched all classes above	Re-searched all subclasses above	5/7/2016	JPE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	1/21/2015	JPE
Keyword search	1/20/2015	JPE
IP.com search	1/20/2015	JPE
and all docs cited in European search report	1/20/2015	JPE
Search with SSE (Michael Obinna)	1/26/2015	JPE

/JAMES P EVANS/ Examiner.Art Unit 2836	
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SEARCH NOTES

Search Notes	Date	Examiner
Consulted Jared Fureman (SPE)	1/29/2015	JPE
Consulted Primary Dan Cavallari	8/13/2015	JPE
Consulted Primary Alex Gilman in Connectors	8/13/2015	JPE
Consulted Primary Carlos Amaya	8/14/2015	JPE
Consulted Primary Bob Deberadinis	8/17/2015	JPE
Searched amended claims	1/19/2016	JPE
Consulted Primary Ken Wells	1/19/2016	JPE
Added IDS docs, reviewed them, and performed augmented searches	5/7/2016	JPE
Consulted Primary Ken Wells	5/7/2016	JPE
Consulted Primary John Kim and SPE Jared Fureman	10/5/2016	JPE
Search Amended Claims with and without search classes	6/13/2017	JPE
Consulted Primary Dan Cavallari re: Allowance	6/15/2017	JPE

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
H04B	5/0037	1/19/2016	JPE
Re-searched above	Re-searched above	5/7/2016	JPE
H04B	5/0037 and many other classes See EAST history	6/15/2017	JPE


/JAMES P EVANS/
Examiner.Art Unit 2836

Issue Classification 	Application/Control No. 13663012	Applicant(s)/Patent Under Reexamination AN ET AL.
	Examiner JAMES P EVANS	Art Unit 2836

CPC						
Symbol					Type	Version
H02J	50	/	/	10	F	2016-02-01
Y10T	29	/	/	4902	A	2015-01-15
B60L	11	/	/	182	I	2013-01-01
G06K	19	/	/	0723	I	2013-01-01
H02J	5	/	/	005	I	2013-01-01
H02J	7	/	/	025	I	2013-01-01
H01F	41	/	/	14	I	2013-01-01
H04B	5	/	/	0037	I	2013-01-01
H04B	5	/	/	0081	I	2013-01-01
Y02T	90	/	/	122	A	2013-01-01
H02J	17	/	/	00	I	2013-01-01
Y02T	10	/	/	7005	A	2013-01-01
Y02T	90	/	/	16	A	2013-01-01
Y02T	90	/	/	14	A	2013-01-01
Y02T	10	/	/	7072	A	2013-01-01
H02J	50	/	/	12	I	2016-02-01
H01F	38	/	/	14	I	2013-01-01
H04W	4	/	/	008	A	2013-01-01

CPC Combination Sets					
Symbol		Type	Set	Ranking	Version

/JAMES P EVANS/ Examiner.Art Unit 2836	6/15/2017 (Date)	Total Claims Allowed: 20	
(Assistant Examiner)			
/DANIEL CAVALLARI/ Primary Examiner.Art Unit 2836	06/16/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 11
(Primary Examiner)			

Issue Classification 	Application/Control No. 13663012	Applicant(s)/Patent Under Reexamination AN ET AL.
	Examiner JAMES P EVANS	Art Unit 2836

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant																<input type="checkbox"/> CPA																<input type="checkbox"/> T.D.																<input type="checkbox"/> R.1.47															
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-	6	-	22	19	38																																																										
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-	16	13	32																																																												

/JAMES P EVANS/ Examiner.Art Unit 2836 (Assistant Examiner)	6/15/2017 (Date)	Total Claims Allowed: 20	
/DANIEL CAVALLARI/ Primary Examiner.Art Unit 2836 (Primary Examiner)	06/16/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 11

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	13/663,012		
		Filing Date	October 29, 2012		
		First Named Inventor	Jeong Wook An		
		Art Unit	2836		
Examiner Name	James P. Evans				
Sheet	1	of	1	Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
	U1	2007/0095913-A1		05-03-2007	Takahashi <i>et al.</i>	ALL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1	JP	2004364199-A	12-24-2004	Sony Corp.	ALL	
	F2	JP	H10282232-A	10-23-1998	Toshiba Corp.	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated February 14, 2017 in Japanese Application No. 2015501586.	

Examiner Signature	/JAMES P EVANS/	Date Considered	06/14/2017
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	13663012			
Filing Date:	29-Oct-2012			
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME			
First Named Inventor/Applicant Name:	Jeong Wook AN			
Filer:	Jeff Lloyd/Seneca Miller			
Attorney Docket Number:	SUN.LGI.420			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt

EFS ID:	29344180
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Seneca Miller
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	30-MAY-2017
Filing Date:	29-OCT-2012
Time Stamp:	16:42:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$180
RAM confirmation Number	053117INTEFSW00004132190065
Deposit Account	190065
Authorized User	Seneca Miller

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	fee-info.pdf	30621 7403ec47810bec34b4d400cbae8ac8238c482177	no	2

Warnings:

Information:

Total Files Size (in bytes):	30621
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	Jeong Wook An
				Art Unit	2836
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	SUN.LGI.420

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1	JP	2001027687-A	01-30-2001	ISHIKAWAJIMA HARIMA HEAVY IND	ALL	

Examiner Signature		Date Considered	
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Electronic Patent Application Fee Transmittal

Application Number:	13663012			
Filing Date:	29-Oct-2012			
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME			
First Named Inventor/Applicant Name:	Jeong Wook AN			
Filer:	Jeff Lloyd/MORGAN LAMPP			
Attorney Docket Number:	SUN.LGI.420			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt

EFS ID:	29325420
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/MORGAN LAMPP
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	26-MAY-2017
Filing Date:	29-OCT-2012
Time Stamp:	13:41:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SIDS9.pdf	184550	yes	3
			d5208986b8630639fa758e5b2eded93ccc43418e		

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Transmittal Letter	1	2	
Information Disclosure Statement (IDS) Form (SB08)	3	3	

Warnings:

Information:

2	Foreign Reference	F1.pdf	6912483	no	9
			24c25de4b012e0ef79a40653c86e672b6892b175		

Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	30622	no	2
			285aa7275427091574b97a5a4ecec66bc75ce3618		

Warnings:

Information:

Total Files Size (in bytes):	7127655
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I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on May 26, 2017.



Jeff Lloyd, Patent Attorney, Reg. No. 35,589

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver and Method of Manufacturing the Same

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the reference listed below and on the attached form PTO/SB/08 is being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. A copy of the cited reference is attached.

Applicants note that Japanese Publication No. 2001027687, cited as F1 on the attached form PTO/SB/08, was written in a foreign language; however, an English language Abstract is provided herewith. Applicants respectfully request that the reference be made of record and considered in the examination of the subject application.

This information is being submitted subsequent to the later of three months after the filing date of the present application or the mailing of the first Office Action on the merits, but before the mailing of a final action or the Notice of Allowance. The fee of \$180.00 was paid at the time this statement was filed.

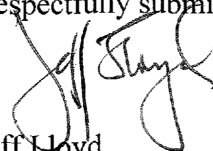
J:\SUNLGI\420\IDS-Refs\5-25-17\SIDS9.doc/mep

It is respectfully requested that the Examiner indicate consideration of the cited reference by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,



Jeff Lloyd

Patent Attorney

Registration No. 35,589

Phone No.: 352-375-8100

Fax No.: 352-372-5800

Address: Saliwanchik, Lloyd & Eisenschenk
A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/mep

Attachments: Form PTO/SB/08; copy of reference cited.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known			
			Application Number		13/663,012	
			Filing Date		October 29, 2012	
			First Named Inventor		Jeong Wook An	
			Art Unit		2836	
			Examiner Name		James P. Evans	
Sheet	1	of	1	Attorney Docket Number		SUN.LGI.420

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
	U1	2007/0095913-A1		05-03-2007	Takahashi <i>et al.</i>	ALL

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)						
	F1	JP-2004364199-A			12-24-2004	Sony Corp.	ALL	
	F2	JP-H10282232-A			10-23-1998	Toshiba Corp.	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated February 14, 2017 in Japanese Application No. 2015501586.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	29119405
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Natalie Stevenson
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	04-MAY-2017
Filing Date:	29-OCT-2012
Time Stamp:	16:14:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Other Reference-Patent/App/Search documents	R1.pdf	89786 <small>227ec014380969d8746fbc01236b035c48d ef0e5</small>	no	2

Warnings:

Information:					
2		SIDS8.pdf	217608 eb1d7633c4a933097cbda846474722c84f93b382	yes	3
Multipart Description/PDF files in .zip description					
		Document Description	Start	End	
		Transmittal Letter	1	2	
		Information Disclosure Statement (IDS) Form (SB08)	3	3	
Warnings:					
Information:					
3	Foreign Reference	F1.pdf	1486097 b65273999e5f664cd9544ebf4341f303c4264910	no	19
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Information:					
4	Foreign Reference	F2.pdf	3585041 08c8f3b2e9efd77962e2dfc418d4bde38d456228	no	44
Warnings:					
Information:					
Total Files Size (in bytes):			5378532		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on May 4, 2017.

/NATALIE STEVENSON/

Natalie Stevenson

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver and Method of Manufacturing the Same

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. Copies of the cited references are attached. However, Applicants have not submitted a copy of the published U.S. Patent Application cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

Applicants note that Japanese Publication Nos. 2004364199 and H10282232, cited as F1 and F2, respectively, on the attached form PTO/SB/08 were written in a foreign language; however, English language Abstracts are provided herewith. Applicants have also included U.S. Publication No. 2007/0095913, cited as U1 on the attached form PTO/SB/08, which is a patent family member of F1 and is believed to be an English language equivalent thereof. Applicants

respectfully request that the references be made of record and considered in the examination of the subject application.

The undersigned hereby certifies that each item of information contained in this Supplemental Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Supplemental Information Disclosure Statement. Applicants are attaching a copy of the Japanese Office Action.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,

/JEFF LLOYD/

Jeff Lloyd
Patent Attorney
Registration No. 35,589
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Fax No.: 352-372-5800
Address: Saliwanchik, Lloyd & Eisenschenk
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P.O. Box 142950
Gainesville, FL 32614-2950

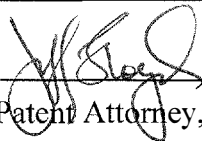
JL/njs

Attachments: Form PTO/SB/08; copies of references cited.

I hereby certify that this correspondence is being electronically transmitted via EFS to the United States Patent and Trademark Office on the date shown below:

AMENDMENT UNDER 37 C.F.R. §1.111
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

27 MARCH 2017



Jeff Lloyd, Patent Attorney, Reg. No. 35,589

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Confirm. No. : 3575
For : Wireless Power Receiver and Method of Manufacturing the Same

Mail Stop **Amendment**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. §1.111

Sir:

In response to the Office Action dated December 27, 2016, please amend the application identified above as follows:

In the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A wireless power receiver comprising:

a substrate ~~having comprising~~ a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit; ~~and~~

a coil unit disposed on the substrate, the coil unit comprising including a first connection terminal, a second connection terminal, and a coil; ~~and~~

a short-range communication antenna disposed on the substrate and surrounding the coil;

wherein the coil is configured to wirelessly receive power, wherein the coil is formed as a conductive pattern on or within the substrate,

wherein the conductive pattern ~~includes comprises~~ a conductive line wound at least two times and the conductive pattern has a spiral shape,

wherein the first connection terminal is located at one end of the coil and the second connection terminal is ~~provided located~~ at the other end of the coil,

wherein the coil unit overlaps the receiving space in a ~~vertical~~ first direction perpendicular to an upper surface of the substrate; ~~;~~

wherein the connecting unit is disposed in the receiving space and connected to the coil unit, ~~and~~

wherein the connecting unit overlaps the receiving space in a second direction parallel to the upper surface of the substrate, and

wherein the connecting unit ~~includes comprises~~:

a third connection terminal connected to the first connection terminal of the coil unit;

and

a fourth connection terminal connected to the second connection terminal of the coil unit.

2. (Canceled)

3. (Previously Presented) The wireless power receiver of claim 1, wherein the shape of the receiving space corresponds to a shape of the connecting unit.

4-6. (Canceled)

7. (Currently Amended) The wireless power receiver of ~~claim 6~~claim 1, wherein the short-range communication antenna has a rectangular configuration formed by winding one conductive line several times.

8. (Canceled)

9. (Currently Amended) The wireless power receiver of ~~claim 6~~claim 1, wherein the connecting unit is connected to the short-range communication antenna.

10. (Canceled)

11. (Previously Presented) The wireless power receiver of claim 1, wherein the conductive pattern is a conductive layer.

12. (Previously Presented) The wireless power receiver of claim 1, wherein the substrate comprises a pattern groove for receiving a part of the coil and wherein the part of the coil is disposed in the pattern groove.

13. (Currently Amended) The wireless power receiver of ~~claim 12~~claim 1, wherein the coil has a thickness smaller than a thickness of the substrate and wherein an upper portion of the coil is exposed out of the substrate.

14-18. (Canceled)

19. (Previously Presented) A wireless portable terminal, comprising the wireless power receiver of claim 1.

20. (Canceled)

21. (Previously Presented) The wireless power receiver of claim 1, wherein the substrate comprises magnetic material.

22. (Canceled)

23. (Currently Amended) A wireless power receiver comprising:
a substrate ~~having comprising~~ a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit; and
a coil unit ~~including comprising~~ a first connection terminal, a second connection terminal, and a coil; and
a short-range communication antenna disposed on the substrate and surrounding the coil;
wherein the coil is configured to wirelessly receive power,
wherein the coil is formed as a conductive pattern on or within the substrate,
wherein the conductive pattern ~~includes comprises~~ a conductive line wound at least two times and the conductive pattern has a spiral shape,
wherein the first connection terminal is located at one end of the coil and the second connection terminal is ~~provided~~ located at the other end of the coil;,
wherein the connecting unit is disposed in the receiving space and connected to the coil unit,
wherein the connecting unit overlaps the receiving space in a direction parallel to the upper surface of the substrate, and
wherein the connecting unit ~~includes comprises~~:
a third connection terminal connected to the first connection terminal of the coil unit; and
a fourth connection terminal connected to the second connection terminal of the coil unit; and
wherein the coil unit is disposed on a ~~top surface of~~ the substrate and the connecting unit.

24. (Canceled)

25. (Previously Presented) The wireless power receiver of claim 1, wherein the substrate is flexible.

26-29. (Canceled)

30. (Currently Amended) The wireless power receiver of claim 1, wherein the one end of the coil is at an ~~inside-outside~~ portion of the conductive pattern and the other end of the coil is at an ~~outside-inside~~ portion of the conductive pattern.

31. (Canceled)

32. (Currently Amended) The wireless power receiver of ~~claim 1~~claim 23, wherein the connecting unit is configured such that it is separable from the receiving space.

33. (New) The wireless power receiver of claim 23, wherein the predetermined shape of the receiving space corresponds to a shape of the connecting unit.

34. (New) The wireless power receiver of claim 23, wherein the short-range communication antenna has a rectangular configuration formed by winding one conductive line several times.

35. (New) The wireless power receiver of claim 23, wherein the connecting unit is connected to the short-range communication antenna.

36. (New) The wireless power receiver of claim 23, wherein the substrate comprises a pattern groove for receiving a part of the coil, and wherein the part of the coil is disposed in the pattern groove.

37. (New) A wireless portable terminal, comprising the wireless power receiver of claim 23.
38. (New) The wireless power receiver of claim 23, wherein the substrate comprises magnetic material.
39. (New) The wireless power receiver of claim 23, wherein the substrate is flexible.

Remarks

Claims 1, 3, 6, 7, 9, 11-13, 19, and 21-32 are pending in the subject application. By this Amendment, claims 1, 7, 9, 13, 23, 30, and 32 are amended; claims 6, 22, 24, 26-29, and 31 are canceled; and new claims 33-39 are added. No new matter is introduced. Support for the amendments and new claims can be found throughout the original specification (see, for example; page 6, lines 26-27; page 15, lines 4-8; page 21, lines 22-24; page 24, lines 1-2; Figure 11; and original claim 6). Upon entry of these amendments, claims 1, 3, 7, 9, 11-13, 19, 21, 23, 25, 30, and 32-39 will be before the Examiner for further consideration.

The amendments set forth herein should not be interpreted to indicate that Applicants have agreed with or acquiesced to the rejections set forth in the outstanding Office Action. The amendments to the claims have been made in an effort to lend greater clarity to the claimed subject matter and to expedite prosecution. Favorable consideration of the claims now presented, in view of the remarks and amendments set forth herein, is respectfully requested.

Rejection of claims 1, 3, 11-13, 19, 21-23, and 27-32 under 35 U.S.C. §102

Claims 1, 2, 11-13, 19, 21-23, and 27-32 have been rejected under pre-AIA 35 U.S.C. §102(e) as being anticipated by Kuk (U.S. Patent Application Publication No. 2013/0106198). Applicants respectfully request reconsideration.

Though Applicants do not necessarily agree that Kuk anticipated these claims as previously presented, this issue need not be addressed because Kuk is not available as prior art. According to pre-AIA 35 U.S.C. §102(e), “an international application filed under the treaty defined in section 351(a) shall have the effects for the purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language” (emphasis added). In this case, the international application of which Kuk is a national stage application – PCT/KR2011/004561 – did not publish in English, so the filing date of Kuk for §102 purposes is January 3, 2013, which is after both the March 23, 2012 priority date and the October 29, 2012 filing date of the subject application. Thus, **Kuk is not available as prior art under any subsection of pre-AIA 35 U.S.C. §102.**

In addition, though it is not necessary to address this rejection in view of the above, Applicants note that, in an effort solely to expedite prosecution, each of independent claims 1 and 23 has been amended to recite a limitation similar to that previously presented in claim 6, which was indicated in the Action as containing allowable subject matter, as well as additional limitations (see also, *e.g.*, Figure 11 of the original specification). Accordingly, Applicants respectfully request withdrawal of the rejection of claims 1, 3, 11-13, 19, 21-23, and 27-32 under 35 U.S.C. §102.

Rejection of claim 25 under 35 U.S.C. §103(a)

Claim 25 has been rejected under 35 U.S.C. §103(a) as being unpatentable over Kuk. Applicants respectfully request reconsideration.

As discussed above, Kuk is not available as prior art. Accordingly, Applicants respectfully request withdrawal of the rejection of claim 25 under 35 U.S.C. §103(a).

Objection to claims 6, 7, 9, 24, and 26

Claims 6, 7, 9, 24, and 26 have been objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicants thank the Examiner for the indication of allowable subject matter. As discussed above, though it is not necessary to address the prior art rejections because Kuk is not available as prior art, in an effort solely to expedite prosecution, each of independent claims 1 and 23 has been amended to recite a limitation similar to that previously presented in claim 6. Accordingly, Applicants respectfully request reconsideration and withdrawal of the objection to claims 6, 7, 9, 24, and 26.

New claims 33-39

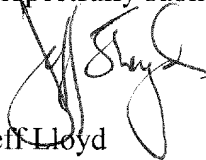
Applicants submit that new claims 33-39 are also allowable over the cited art. The features of these claims, which find support throughout the original specification, are not taught or suggested in the cited reference (see, *e.g.*; page 6, lines 26-27; page 15, lines 4-8; page 21, lines 22-24; page 24, lines 1-2).

In view of the foregoing remarks and amendments to the claims, Applicants believe that the claims as currently pending are in condition for allowance, and such action is respectfully requested.

Applicants invite the Examiner to call the undersigned if clarification is needed on any of this response, or if the Examiner believes a telephonic interview would expedite the prosecution of the subject application to completion.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,



Jeff Lloyd

Patent Attorney

Registration No. 35,589

Phone No.: 352-375-8100

Fax No.: 352-372-5800

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A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/con/lcf

Electronic Acknowledgement Receipt

EFS ID:	28749495
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/MORGAN LAMPP
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	27-MAR-2017
Filing Date:	29-OCT-2012
Time Stamp:	17:06:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response3.pdf	465392 c91d78ddf229c5cd328c50959e2519811871f2b4	yes	9

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Amendment/Req. Reconsideration-After Non-Final Reject	1	1	
Claims	2	6	
Applicant Arguments/Remarks Made in an Amendment	7	9	
Warnings:			
Information:			
Total Files Size (in bytes):		465392	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>			



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Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes application details for 13/663,012 and examiner information for Evans, James P.

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

euspto@lepatents.com

DETAILED ACTION

Response to Amendment

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114.

Applicant's submission filed 10/27/2016 along with the request has been entered. Allowability of claims 1, 3, 11-13, 19, 21-23, 25, and 27-32 are withdrawn in light of new prior art submitted 7/7/2016. New grounds for rejection are set forth below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1, 3, 11-13, 19, 21-23, and 27-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Kuk (US 2013/0106198).

Art Unit: 2836

Regarding claim 1, Kuk teaches (e.g., Fig. 3-5) a wireless power receiver (Fig 2: power supplying device 100, which inherently receives power from a magnetic field to which it is exposed) comprising:

a substrate (e.g., Fig. 5: circuit board 130 and/or core 120) having a receiving space (e.g., Fig. 5: 130b, circuit board 130: upwards-facing flat surface of the circuit board over which the coils 110 are positioned, and/or the bottom surface of 130, and/or the through-holes therein; core 120: upwards-facing flat surface of the core over which the coils 110 are positioned and/or the through-holes therein) of a predetermined shaped formed therein (e.g., Fig. 4, 5; Paragraph [0069], last sentence: the four connection parts 138 (*which comprise the connecting unit as described next*) enclose the through-holes 137 and therefore are on both sides of the circuit board, thus the receiving spaces on these surfaces have a predetermined shape for the connecting unit, in that the substrate's receiving space is determined by the size and position of the coils to be connected via the connecting unit; and/or the through-holes within 120 and 130 form a receiving space to accommodate the connecting unit described below, thus the receiving spaces on these through-holes have a predetermined shape for the connecting unit ; ***i.e., substrate (130 and/or core 120) has a receiving space of a predetermined shape formed therein***) for a connecting unit (e.g., Fig. 4, Paragraph [0069], last sentence: the four connection parts 138 connected to the four free ends of coils 110: ***i.e., these four parts 138 form a connecting unit***); and

a coil unit (e.g., coil 110, including coils 11 and 112) including a first connection terminal (e.g., first end of the coil 111), a second connection terminal (e.g., second end

Art Unit: 2836

of the coil 111), and a coil, wherein the coil is configured to wirelessly receive power (inherent operation of the coil, as discussed earlier), wherein the coil is formed as a conductive pattern (coil is inherently conductive, and forms a spiral pattern as shown in Figures 3 and 5) on or within the substrate (e.g., Fig. 5: coil unit 110 is positioned on substrate 130 and/or core 120, with portion 111 directly on the substrate 130 and with portion 112 directly on core 120),

wherein the conductive pattern includes a conductive line wound at least two times and the conductive pattern has a spiral shape (e.g., Fig. 5: coil 110 is a conductive (inherent, as discussed earlier) line wound more than two times and has a spiral shape somewhat flattened into an oval);

wherein the first connection terminal is located at one end of the coil (e.g., Fig. 5: first end of the coil 111 or 112) and the second connection terminal is provided at the other end of the coil (e.g., second end of the coil 111 or 112),

wherein the coil unit overlaps the receiving space in a vertical direction perpendicular to an upper surface of the substrate (e.g., Fig. 5: coil unit 110 overlaps the receiving space in a vertical direction perpendicular to an upper surface of the substrate because the coils are positioned directly above area 130b of the substrate, as described above);

wherein the connecting unit (e.g., Fig. 4, Paragraph [0069]: the four connection parts 138) is disposed in the receiving space (parts 138 are in the receiving space) and connected to the coil unit, wherein the connecting unit includes:

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a third connection terminal connected to the first connection terminal of the coil unit (e.g., Fig. 4: connection part connected to first end of one of the two coils 111 or 112); and

a fourth connection terminal connected to the second connection terminal of the coil unit (e.g., Fig. 4: connection part connected to other end of one of the two coils 111 or 112).

Regarding claim 3, Kuk teaches (e.g., Fig. 5) the wireless power receiver of claim 1, wherein the shape of the receiving space (e.g., Fig. 5: 130b, circuit board 130: upwards-facing flat surface of the circuit board over which the coils 110 are positioned, and/or the rear side; core 120: upwards-facing flat surface of the core over which the coils 110 are positioned; and/or the through-holes within 120 and 130 form a receiving space to accommodate the connecting unit described below, thus the receiving spaces on these through-holes have a predetermined shape for the connecting unit) corresponds to a shape (e.g., the shapes correspond in that they are rectangles of the same size; and/or the through-holes within 120 and 130 form a receiving space which corresponds to the shape of the connecting unit) of the connecting unit (e.g., Fig. 4, the four connection parts 138).

Regarding claim 11, Kuk teaches (e.g., Fig. 5) the wireless power receiver of claim 1, wherein the conductive pattern is a conductive layer (e.g., Paragraph [0086]: coil 110 which is wound, has at least single conductive layer).

Regarding claim 12, Kuk teaches (e.g., Fig. 6-7) the wireless power receiver of claim 1, wherein the substrate comprises a pattern groove (e.g., grooves 120a) for

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receiving a part of the coil and wherein the part of the coil is disposed in the pattern groove (e.g., Fig. 7: bottom part of coil 111 is disposed in grooves 120a).

Regarding claim 13, Kuk teaches (e.g., Fig. 7) the wireless power receiver of claim 12, wherein the coil has a thickness smaller than a thickness of the substrate (e.g., coil 111 thickness is less than thickness of 120') and wherein an upper portion of the coil is exposed out of the substrate (e.g., coil 111 upper portion of the coil is exposed out of the substrate 120').

Regarding claim 19, Kuk teaches a wireless portable terminal, comprising the wireless power receiver of claim 1 (e.g., Paragraph [0042]: the entire circuit of Figures 2-5 may comprise a portable electronic device ...may include but are not limited to cellular phones, ... or the like.. *(i.e., a wireless portable terminal)*).

Regarding claim 21, Kuk teaches the wireless power receiver of claim 1, wherein the substrate comprises magnetic material (e.g., Paragraph [0091], second sentence: powder may comprise a material allowing the core 120 or 120' to have magnetism.)

Regarding claim 22, Kuk teaches the wireless power receiver of claim 1, further comprising a wireless power receiving circuit connected to the connecting unit (e.g., Fig. 2).

Regarding claim 23, Kuk teaches (e.g., Fig. 3-7) a wireless power receiver comprising:

a substrate having a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit; and

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a coil unit including a first connection terminal, a second connection terminal, and a coil, wherein the coil is configured to wirelessly receive power, wherein the coil is formed as a conductive pattern on or within the substrate, wherein the conductive pattern includes a line wound at least two times and the conductive pattern has a spiral shape, wherein the first connection terminal is located at one end of the coil and the second connection terminal is provided at the other end of the coil; wherein the connecting unit is disposed in the receiving space and connected to the coil unit, wherein the connecting unit includes: a third connection terminal connected to the first connection terminal of the coil unit; a fourth connection terminal connected to the second connection terminal of the coil unit (e.g., all preceding limitations disclosed in the rejection of Claim 1, supra);

wherein the coil unit is disposed on a top surface of the substrate (e.g., Fig. 7: coil 111 is disposed in grooves 120a on the top surface of the core 120) and the connecting unit (e.g., Fig. 7: coil 111 is disposed the top surface of the connecting parts 138).

Regarding claim 27, Kuk teaches a wireless portable terminal, comprising the wireless power receiver of claim 3 (e.g., Paragraph [0042]: the entire circuit of Figures 2-5 may comprise a portable electronic device ...may include but are not limited to cellular phones, ... or the like.. (*i.e., a wireless portable terminal*)).

Regarding claim 28, Kuk teaches the wireless portable terminal of claim 19, which is a smartphone (e.g., Paragraph [0042]: the entire circuit of Figures 2-5 may

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comprise a portable electronic device ...may include but are not limited to cellular phones, ... or the like.. (*i.e., a smartphone*)).

Regarding claim 29, Kuk teaches the wireless portable terminal of claim 27, which is a smartphone (e.g., Paragraph [0042]: the entire circuit of Figures 2-5 may comprise a portable electronic device ...may include but are not limited to cellular phones, ... or the like.. (*i.e., a smartphone*)).

Regarding claim 30, Kuk teaches (e.g., Fig. 5) the wireless power receiver of claim 1, wherein the one end of the coil (e.g., 111', 112') is at an inside portion of the conductive pattern and the other end of the coil is at an outside portion of the conductive pattern (e.g., outside portion near perimeter of assembly).

Regarding claim 31, Kuk teaches (e.g., Fig. 3-7) a wireless power receiver comprising: a substrate having a receiving space of a predetermined shape formed therein for a connecting unit configured to connect to a wireless power receiving circuit; and a coil unit including a first connection terminal, a second connection terminal, and a coil, wherein the coil is configured to wirelessly receive power, wherein the coil is formed as a conductive pattern on or within the substrate, wherein the conductive pattern includes a conductive line wound at least two times and the conductive pattern has a spiral shape, wherein the first connection terminal is located at one end of the coil and the second connection terminal is provided at the other end of the coil; wherein the connecting unit is disposed in the receiving space and connected to the coil unit, wherein the connecting unit includes: a third connection terminal connected to the first connection terminal of the coil unit; and a fourth connection terminal connected to the

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second connection terminal of the coil unit (e.g., all preceding limitations disclosed in the rejection of Claim 1, supra); and

wherein the conductive line of the conductive pattern crosses over the receiving space (e.g., Fig. 5: coil 110 crosses over the receiving space on substrate 130 and core 120).

Regarding Claim 32, although Kuk does not explicitly disclose wherein the connecting unit is configured such that it is separable from the receiving space, it is inherent that the terminals 138 are separable from the printed circuit board (PCB), for example, by way of desoldering the terminals and removing them. NOTE: “separable” is not mentioned in the specification.

Claim Rejections - 35 USC § 103

4. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuk (US 2013/0106198).

Regarding Claim 25, Kuk teaches the wireless portable terminal of claim 1, but does not disclose wherein the substrate is flexible. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to make the core 120 and/or the substrate 130 flexible, because this would allow the assembled unit to flex, thus resisting breakage and increasing reliability, of which fact the examiner takes official notice.

Allowable Subject Matter

5. Claims 6, 7, 9, 24, and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Claim 6 and dependent claims 7, 9, 24 and 26 would be allowable because none of the prior art of record discloses or suggests the wireless power receiver of claim 1, further comprising a short-range communication antenna formed on the substrate and surrounding the coil.

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Conclusion

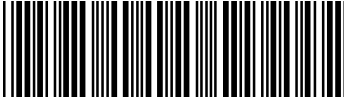
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES P. EVANS whose telephone number is (571) 270-0639. The examiner can normally be reached on Monday-Friday 8 AM-5pm ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jared Fureman can be reached on 571-272-2391. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES P EVANS/
Examiner, Art Unit 2836

/JUNG KIM/
Primary Examiner, Art Unit 2842

Search Notes 	Application/Control No. 13663012	Applicant(s)/Patent Under Reexamination AN ET AL.
	Examiner JAMES P EVANS	Art Unit 2836

CPC- SEARCHED		
Symbol	Date	Examiner
H04B5/0037	1/29/2015	JPE
H04B5/0081	1/29/2015	JPE
H01F41/14	1/29/2015	JPE
H01F38/14	8/13/2015	JPE
Re-searched all symbols above	1/19/2016	JPE
Re-searched all symbols above	5/7/2016	JPE
Reviewed against new art	12/8/2016	JPE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
307	104	1/29/2015	JPE
713	300	8/13/2015	JPE
Re-searched all above	Re-searched all subclasses above	1/19/2016	JPE
Re-searched all classes above	Re-searched all subclasses above	5/7/2016	JPE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	1/21/2015	JPE
Keyword search	1/20/2015	JPE
IP.com search	1/20/2015	JPE
and all docs cited in European search report	1/20/2015	JPE
Search with SSE (Michael Obinna)	1/26/2015	JPE
Consulted Jared Fureman (SPE)	1/29/2015	JPE

/JAMES P EVANS/ Examiner.Art Unit 2836	
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SEARCH NOTES

Search Notes	Date	Examiner
Consulted Primary Dan Cavallari	8/13/2015	JPE
Consulted Primary Alex Gilman in Connectors	8/13/2015	JPE
Consulted Primary Carlos Amaya	8/14/2015	JPE
Consulted Primary Bob Deberadinis	8/17/2015	JPE
Searched amended claims	1/19/2016	JPE
Consulted Primary Ken Wells	1/19/2016	JPE
Added IDS docs, reviewed them, and performed augmented searches	5/7/2016	JPE
Consulted Primary Ken Wells	5/7/2016	JPE
Consulted Primary John Kim and SPE Jared Fureman	10/5/2016	JPE

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
H04B	5/0037	1/19/2016	JPE
Re-searched above	Re-searched above	5/7/2016	JPE

/JAMES P EVANS/
Examiner.Art Unit 2836

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20130106198".pn.	US-PGPUB; USPAT	OR	ON	2016/12/08 12:10
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S2	8	("20050046573" "20080122570" "20080154178" "20080197957" "20090058358" "20100277004" "20120057322" "6008622").PN.	US-PGPUB; USPAT	OR	ON	2015/01/20 10:51
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S4	5375	(substrate or base or core or "ferrite magnet layer") WITH (space or shape or shaped) WITH (connector or "connecting unit") WITH (terminal or lead or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 11:34
S5	175746	(coil\$1 or winding\$1) WITH (power or energy or current)WITH (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:06
S6	5375	(substrate or base or core or "ferrite magnet layer") WITH (space or shape or shaped) WITH (connector or "connecting unit") WITH (terminal or lead or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:06
S7	158	S6 AND S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:06
		energy or current)SAME(terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:23
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S10	1934	S9 SAME S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/01/20 12:24

S11	392	WO adj "2008053599" WO adj "2013174340" EP adj "1870984" WO adj "2012169728" WO adj "2006127829" EP adj "0037921" WO adj "2005034152" WO adj "1992014254" WO adj "2006134712" WO adj "2007007516" WO adj "2007055265" "20030006657" EP adj "2642632" EP adj "2202499" EP adj "2642632" CN adj "1110225" "3634878" "3848208" "20130249302" WO adj "2006047953" CN adj "1151100" WO adj "2013149781" CN adj "103326473" JP adj "2012235630" "5724018" CN adj "100466382" CN adj "101071909" EP adj "2367263" WO adj "2011147451" WO adj "2014183352" EP adj "1487087" WO adj "2004045050" WO adj "2009070705" JP adj "2013138404" WO adj "2004030845" EP adj "2309620" JP adj "2005065018" JP adj "2004023961" JP adj "2010110168" EP adj "2256751" WO adj "2009155030" EP adj "2642591" WO adj "2012015839" EP adj "2814047" JP adj "2004072867" "2091798" WO adj "1993013532" WO adj "2008135507" "3660791" WO adj "2006101049" WO adj "2002046653" WO adj "2007049788" JP adj "2001144642" "3146419" EP adj "1868280" EP adj "1883998" JP adj "2014023281" "3792410" CN adj "201340774" "20060278387" CN adj "1855761" JP adj "2013157917" EP adj "1717967" CN adj "101189692" CN adj "102056328" "3848205" WO adj "2013022255" JP adj "2014027102" EP adj "1821556" "3767102" EP adj "2375531" JP adj "2008017141" WO adj "2005034307" JP adj "2010093386" EP adj "2629361" WO adj "2005030528" CN adj "1941230" "3163840" "3863040"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 13:52
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S13	3	EP adj "2642632"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 14:51
S14	22	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-	US-PGPUB; USPAT; FPRS; JPO;	OR	ON	2015/01/20 15:01

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S18	2	"20120044114"	US-PGPUB; USPAT	OR	ON	2015/01/20 17:26
S19	3	((("Jeong Wook") near2 (AN)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:52
S20	2	((("Jeong Wook") near2 (AN)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 08:54
S21	8	((("Jung Oh") near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:55
S22	1	((("Jung Oh") near2 (LEE)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 08:57
S23	3	((("Sung Hyun") near2 (LEEM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:58
S24	0	((("Sung Hyun") near2 (LEEM)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 09:04
S25	7	((("Yang Hyun") near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 09:05
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		or US-20120044114-\$ or US-20140167521-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$).did. or (WO-2013120710-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$).did. or (WO-2013065245-\$ or CN-203326731-\$).did.				
S29	2993903	(wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or remote\$2 or ((free or without or lack\$3 or no or less) near2 (contact\$3 or connect\$3)) or (RF or R F or radio\$1frequenc\$3 or radio frequency) near3 (transmission or network\$3 or LAN or control\$3) or connectionless)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:02
S30	1440492	(receiv\$3 or accept\$3 or obtain\$3 or recover\$3 or receipt or retriev\$3 or acquir\$3 or acquisition) near3 (spac\$3 or hole or opening or slot or gap or notch or port)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:07
S31	3326212	(predetermin\$5 or predefined or set or prescribed or fixed or preselect\$3 or establish\$3 or prestablish\$3 or standard or desired or reference or known or specific\$4 or select\$4 or fixed or defin\$4 or precis\$3 or certain or preset or particular) near3 (size or shape or dimension or design or pattern or cutout or configuration or layout)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:10
S32	2674608	(coil or transmit\$4 or transmission or receiv\$3 or transceiv\$3 or antenna\$2 or transponder) near3 (unit or module or circuit or assembly or device)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:19
S33	2115289	(connect\$3 or link\$3 or coupl\$3 or join\$3) near3 (terminal or node or lead or electrode or contact)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14 22
S34	80414	S29 SAME S30	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:28
S35	2254	S34 SAME S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:29
S36	328	S35 SAME S32	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:30
S37	52	S36 SAME S33	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:30
S38	133047	S29 SAME S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:31
S39	2254	S38 SAME S30	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:31
S40	5809	S30 near3 S31	US-PGPUB;	ADJ	ON	2015/01/26

EAST Search History

			USPAT; USOCR			14:32
S43	27	jp and "2006042519"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 12:52
S44	0	jp and "04-51115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:35
S45	4911	jp and "rotary transformer"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:36
S46	0	jp and "rotary transformer" and "flexible substrate (35)"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:37
S47	20	jp and "rotary transformer" and "flexible substrate"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:37
S51	2	"4-51115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:42
S52	61	"hitachi ferrite" and "rotary transformer"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:49
S53	17	"hitachi ferrite" and "rotary transformer" and grooves	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:52
S57	4554	"satoshi" AND "shinji"	US-PGPUB; USPAT; USOCR;	ADJ	ON	2015/01/28 09:15

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S58	100	murata AND S57	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/01/28; 09:15
S59	2	JP2010022098A	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/01/28; 10:40
S60	38	"6008622"	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:01
S61	1	"6008622" and Norio	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:02
S62	1	"17402302".FMI D.	US-PGPUB; USPAT; FPRS	OR	ON	2015/01/28; 17:03
S63	336	H04B5/0037	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:30
S64	42	H04B5/0081	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:31
S65	38	H01F41/14	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:32
S66	1111	H02J17/00	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:55
S67	32971	H02J17/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/28; 17:55
S68	6341	H01F41/14	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:19
S69	20594	H01Q7/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:27
S70	1439	H04B5/0081	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:29
S71	21809	S70 OR S69	US-PGPUB;	OR	ON	2015/01/29;

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:29
S72	394	S71 and ("rectang\$4" OR "square")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29 08:38
S73	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/05/19 08:45
S74	18	S73 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/19 08:48
S92	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:16
S93	771	S92 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transeiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:16
S94	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/08/11 17:18

		H04B5/00.ipc.) AND @ad< "20120719"	DERWENT; IBM_TDB			
S95	771	S94 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land")) AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S96	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S95	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S97	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S98	771	S97 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land")) AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S99	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S98	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S100	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S101	771	S100 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land")) AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S102	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S101	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S103	72 2	((coil or winding or antenna or resonator or "receiving element") WITH conductive WITH (layer or	US-PGPUB; USPAT; USOCR;	OR R	ON	2015/08/11 17:23

		pattern)) AND S102	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S104	934	S100 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:29
S105	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S106	934	S105 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S107	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S108	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/11 17:35
S109	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35

S110	934	S109 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S111	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S112	0	S111 AND S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S113	165	S111 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:41
S114	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:09
S115	372	S114 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:09
S116	0	S115 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:10
S117	389	S114 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:11

EAST Search History

S118	0	S117 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:11
S119	136746	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S108) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:13
S120	27	S119 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:14
S121	38	(US-20130249302-\$ or US- 20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US- 20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US- 20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US- 20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US- 20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US- 20140306656-\$).did. or (US-6008622- \$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO- 2013120710-\$ or WO-2010133995- \$).did. or (JP-2013157917-\$ or JP- 2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO- 2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 13:32
S122	136746	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S121) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:32
S123	27	S122 and S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:32
S124	11	S121 NOT S123	US-PGPUB; USPAT; USOCR; FPRS;	ADJ	ON	2015/08/12 13:32

			EPO; JPO; DERWENT; IBM_TDB			
S125	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S126	934	S125 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S127	0	S126 and S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S128	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad< "20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:56
S129	389	S128 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:56
S130	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S126	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:11
S131	160	S130 and spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:11
S132	165	S130 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:13

S133	160	S132 AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12: 14:13
S134	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12: 14:34
S135	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12: 14:36
S136	385	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S135) AND S134	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12: 14:36
S139	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12: 15:22

S140	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 15:22
S141	385	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S140) AND S139	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 15:22
S142	253	S141 and ((space or notch or cutout or "cut-out") SAME(connector connect\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 15:22
S144	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12 16:04
S145	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 16:04

		or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.				
S146	385	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S145) AND S144	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 16:04
S147	253	S146 and ((space or notch or cutout or "cut-out") SAME(connector connect\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 16:04
S148	198	S147 and ((first near3 (connector connect\$3 terminal) SAME (second near3 (connector connect\$3 terminal))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 16:04
S149	28	S147 and ((first ADJ (connector connect\$3 terminal) SAME (second ADJ (connector connect\$3 terminal))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 17:00
S150	1	S147 and ((first ADJ (connector connect\$3 terminal) SAME (second ADJ (connector connect\$3 terminal)))) AND @ad<"20121029"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 17:02
S151	2	S147 and ((first ADJ (connector connect\$3 terminal) SAME (second ADJ (connector connect\$3 terminal)))) AND @ad<"20121030"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 17:02
S152	6	S147 and ((first NEAR2 (connector connect\$3 terminal) SAME (second NEAR2 (connector connect\$3 terminal)))) AND @ad<"20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 17:11
S153	0	((substrate or base or core or "ferrite magnet layer") AND (connector or	JPO	ADJ DJ	ON	2015/08/13 11:35

		"connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)				
S154	11	((substrate or base or core or "ferrite magnet layer") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	JPO	ADJ	ON	2015/08/13 11:35
S155	9194	H01F38/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/13 11:59
S156	5888	H01F38/14.cpc. and @ad< "20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/13 12:04
S157	164	S156 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed or etch\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 12:05
S158	40	S156 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") WITH (layer or pattern or PCB or printed or etch\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 12:06
S161	477	S156 AND (substrate "PCB" semiconductor silicon) AND (terminal port connector connection) AND (coil\$1 or winding\$1 or resonator or secondary or inductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 13:10
S162	293	S156 AND (substrate "PCB" semiconductor silicon) AND (terminal port connector connection) AND	US-PGPUB; USPAT; USOCR;	OR	ON	2015/08/13 13:11

		(space or notch or cutout or "cut-out")	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S164	30	S156 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 13:18
S165	8	"8,092,251"	USPAT	OR	ON	2015/08/13 19:28
S166	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/13 19:33
S167	5888	H01F38/14.cpc. and @ad<"20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/13 19:34
S168	30	S167 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 19:34
S169	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$	US-PGPUB; USPAT; USOCR; FPRS; JPO;	OR	ON	2015/08/13 19:35

		or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	DERWENT			
S170	5	S169 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 19:35
S171	21496	713/3??ccls.	US-PGPUB; USPAT	OR	ON	2015/08/13 19:52
S172	10	S171 AND ((substrate "PCB" semiconductor silicon) SAME (space or notch or cutout or "cut-out")) AND (terminal port connector connection) AND (notch or cutout or "cut-out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/13 19:53
S173	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/17 08:34

		8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.				
S174	21	S173 and flexible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 08:34
S175	21	S173 and flexible and ((uniform\$2 or consistent\$2 or consistency or perfect\$3 or balanc\$3 or equaliz\$3 or overcom\$3 or eliminat\$3 or advantag\$6 or benefit\$4 or beneficially or allow\$3 or effect\$3 or less or great\$3 or better\$3 or more or most or improv\$5 or simplify\$3 or well or simplification or fewer or fewest or least or better or best or superior or increas\$3 or decreas\$3 or enhanc\$5 or lower\$3 or lessen\$3 or short\$5 or higher or highest or lighter or lightest or brighter or brightest or cheap\$3 or fast\$3 or long\$3 or lengthen\$3 or shorten\$3 or extend\$3 or wide\$2 or prolong\$3 or prevent\$3 or eliminat\$5 or mitigat\$3 or without or effective\$4 or efficien\$3 or reduc\$4 or compact\$3 or small\$3 or enhanc\$3 or boost\$3 or simple\$2 or simplify\$3 or easy or ease\$2 or easi\$3 or inhibit\$3 or \$savin\$1 or environment\$4 or \$1friendly or sav\$3 or safe\$2 or protect\$3 or possible or possibilit\$3 or mak\$3 or possible or possibilit\$3 or solv\$2 or fix\$2 or solution or maximum or maximiz\$5 or accomplish\$4 or minimiz\$5 or minimum or optimiz\$5 or low\$1cost or reliable or reliably or avoid\$3 or excellent or (very ADJ high) or (very ADJ low) or stable or stabili\$6 or portable or modular or slow\$3 or speed\$3 or hasten\$3 or strenghten\$3 or resilien\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 09:46
S176	1	S173 and "modular power transmitting system"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:02
S177	358681	(coil winding) SAME (groove\$1 recess\$2 indentation)	US-PGPUB; USPAT;	OR	ON	2015/08/17 11:17

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S178	5890	H01F38/14.cpc. and @ad< "20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/17 11:18
S179	380	S178 AND (coil winding) SAME (groove\$1 recess\$2 indentation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:18
S180	180	S178 AND (coil winding) SAME (groove\$1 recess\$2 indentation) SAME (core substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:19
S181	94	S178 AND (coil winding) SAME (groove\$1 indentation) SAME (core substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/17 11:22
S182	3191265	(wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or remote\$2 or ((free or without or lack\$3 or no or less) near2 (contact\$3 or connect\$3)) or (RF or R F or radio\$1frequenc\$3 or radio frequency) near3 (transmission or network\$3 or LAN or control\$3) or connectionless)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/10/13 09:14
S183	1498071	(receiv\$3 or accept\$3 or obtain\$3 or recover\$3 or receipt or retriev\$3 or acquir\$3 or acquisition) near3 (spac\$3 or hole or opening or slot or gap or notch or port)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/10/13 09:14
S184	3523990	(predetermin\$5 or predefined or set or prescribed or fixed or preselect\$3 or establish\$3 or preestablish\$3 or standard or desired or reference or known or specific\$4 or select\$4 or fixed or defin\$4 or precis\$3 or certain or preset or particular) near3 (size or shape or dimension or design or pattern or cutout or configuration or layout)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/10/13 09:14
S185	2858589	(coil or transmit\$4 or transmission or receiv\$3 or transceiv\$3 or antenna\$2 or transponder) near3 (unit or module or circuit or assembly or device)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/10/13 09:14

EAST Search History

S186	7009	S182 AND S183 AND S184 and S185 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:14
S187	2229	S186 AND ((substrate or base or core or "ferrite magnet layer") WITH (layer or pattern or PCB or printed or etch\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:19
S188	437	S186 AND ((substrate or base or core or "ferrite magnet layer") WITH (conduct\$3 NEAR2(layer or pattern or PCB or printed or etch\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:21
S189	171977	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. H01F38/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:23
S190	15	S188 AND S189	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:23
S191	17651	S182 AND S183 AND S184 and S185 and (radial (helically or helix) Near3 (flat planar))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:37
S192	681	S191 AND ((substrate or base or core or "ferrite magnet layer") WITH (conduct\$3 NEAR2(layer or pattern or PCB or printed or etch\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:38
S193	6	S192 AND S189	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 09:39
S194	25	(coil WITH overlap\$4 NEAR4 connect\$3) AND S189	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/10/13 09:44

			DERWENT; IBM_TDB			
S195	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/10/13 13:43
S196	15	S195 and overlap\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/10/13 13:43
S197	1	"20120248981"	US-PGPUB	OR	ON	2015/10/13 13:44
S198	1657391	((receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16 10:30
S202	51	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/16 10:52

		20090284341-\$ or US-20130126622-\$ or US-20120248981-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.				
S207	546319	S198 AND (((receiv\$3 or accept\$3 or receipt or retriev\$3 or acquir\$3 or acquisition or fit\$4 or accommodat\$3) near3 (spac\$3 or hole or opening or slot\$3 or gap or notch\$2 or port or area or shaped or cut-out or configured or size or shape or dimension or design or pattern or cutout or "cut out" or configuration or layout)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16; 11:03
S208	1657391	((receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16; 11:11
S209	1657391	((receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16; 11:17
S210	1130997	S209 AND (space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/16; 11:17
S211	723742	(coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/16; 11:28
S212	32986	S211 SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/01/16; 11:36

			IBM_TDB			
S213	7222	S212 AND S210	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/16: 11:38
S214	723868	(coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 09:22
S215	32995	S214 SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 09:22
S216	51	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/19: 09:22
S217	6	S215 AND S216	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 09:22
S218	1658038	(receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire	US-PGPUB; USPAT; USOCR;	ADJ	ON	2016/01/19: 09:55

		less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S219	287249	S218 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or base))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/01/19: 09:55
S220	3911	S215 AND S219	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 10:08
S221	253	S220 AND (third ADJ2 (terminal electrode end terminus "connecting land" end contact pin)) AND (fourth ADJ2 (terminal electrode end terminus "connecting land" end contact pin))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 10:15
S222	167	S221 and @ad<"20120323"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 10:23
S223	33	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (overlap\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 13:51
S224	62	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (cross\$3 across))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 14:23
S225	6	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (cross\$3 across)) NEAR3 (space gap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19: 15:13
S226	2	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (overlap\$4)) NEAR3 (space gap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/01/19: 15:18

			DERWENT; IBM_TDB			
S227	2	S221 AND ((coil loop inductor inductance pattern conductive) NEAR3 (top)) NEAR3 (substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/19 15:29
S228	57	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/19 16:47
S237	49	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$ or US-20130069445-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20130069444-\$ or US-20090284341-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/20 09:57

		8653927-\$ or US-7392013-\$ or US-8092251-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.				
S238	57	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/20 09:57
S239	12	S238 NOT S237	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/20 09:57
S240	1	S238 AND Kato	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/01/20 10:07
S241	17	("20050072595" "20050116874" "20060166506" "20070020932" "20070254432" "20070279002" "20080129439" "20080200210"	US-PGPUB; USPAT	OR	ON	2016/05/06 15:59

		"20080266748" "20100289341" "20100308187" "20110127070" "20110267248" "20110285494" "20120019075" "20120049986" "20140091614").PN.				
S242	74	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-20110127070-\$ or US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/05/06 16:01
S243	1713929	(receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/06 16:03
S245	1	WO ADJ "2012150293"	US-PGPUB; USPAT; DERWENT	OR	ON	2016/05/06 16:16
S246	0	"2005116874".PN.	US-PGPUB; USPAT	OR	ON	2016/05/06 16:21

EAST Search History

S247	1	"20050116874".PN.	US-PGPUB; USPAT	OR	ON	2016/05/06; 16:21
S248	1	"20140091640".pn.	US-PGPUB	ADJ	ON	2016/05/06; 16:35
S249	76	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-20110127070-\$ or US-20050072595-\$ or US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/05/06; 16:36
S250	47	S249 AND S243	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/06; 16:36
S251	31	S250 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2016/05/06; 16:39

		patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or base))	DERWENT; IBM_TDB				
S252	723389	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 17:02	
S253	2787	S252 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)) SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second 2nd another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 17:19	
S254	901	S253 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch notched)) OR (connect\$3 coup1\$3) WITH (under beneath below))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 17:50	
S255	648	S254 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or PCB or base))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/07 17:51	
S256	245	S255 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)) WITH ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 18:06	
S257	45	S256 AND ((coil inductor inductance winding antenna) WITH (third 3rd) ADJ2 (terminal electrode end terminus "connecting land" end) WITH (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 18:14	
S258	349	S252 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) NEAR5 substrate) SAME ((terminal electrode end terminus "connecting land" end) NEAR3 (second 2nd another other))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 18:36	
S259	92	S258 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/05/07 18:44	

		notched)) OR (connect\$3 coupl\$3) WITH (under beneath below))	EPO; JPO; DERWENT; IBM_TDB			
S260	272	S252 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) NEAR5 substrate) SAME ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:00
S261	27	S260 AND ((coil inductor inductance winding antenna) WITH (third 3rd) ADJ2 (terminal electrode end terminus "connecting land" end) WITH (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:01
S262	11	S261 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch notched)) OR (connect\$3 coupl\$3) WITH (under beneath below))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:01
S263	9	S261 AND (((coil loop winding antenna inductor inductance inductive pattern conductive) NEAR5 (overlap\$4 cross\$3) NEAR5 (space gap hole notch notched)) OR (connect\$3 coupl\$3) WITH (under beneath below)) AND ((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4) NEAR3 (receiv\$3 reception))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/07 19:04
S288	81	(US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$ or US-20050072595-\$).did. or (US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/10/04 09:21

		20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.				
S290	1	S288 and kuk.inv.	US-PGPUB; USPAT	OR	ON	2016/10/04 09:32
S292	81	(US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$ or US-20110127070-\$ or US-20050072595-\$).did. or (US-20120049986-\$ or US-20120019075-\$ or US-20050116874-\$ or US-20140091614-\$ or US-20110285494-\$ or US-20080266748-\$ or US-20080200210-\$ or US-20100308187-\$ or US-20070020932-\$ or US-20080129439-\$ or US-20060166506-\$ or US-20100289341-\$ or US-20070279002-\$ or US-20110267248-\$ or US-20070254432-\$ or US-20140091640-\$ or US-20030141590-\$ or US-20070007661-\$ or US-20160118711-\$ or US-20070095913-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/10/04 13:42

		(US-3153139-\$) did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$ or WO-2012008693-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$ or JP-2007159326-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$ or WO-2012150293-\$).did.				
S293	1	"20130249302"	US-PGPUB; USPAT	OR	ON	2016/10/04 13:46
S294	38	S292 and ((coil WITH conductive OR conducting) OR etch\$3 OR plating or deposited or deposition or depositing)	US-PGPUB; USPAT	OR	ON	2016/10/04 13:57
S295	41	S292 and (coil WITH conductive OR conducting or conductor)	US-PGPUB; USPAT	OR	ON	2016/10/04 14:03
S296	41	S292 and ((coil or inductor) WITH conductive OR conducting or conductor)	US-PGPUB; USPAT	OR	ON	2016/10/04 14:04

12/ 8/ 2016 6:54:48 PM

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PTO/SB/08A (08-03)
 Approved for use through 07/31/2006. OMB 0651-0031
 U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	James P. Evans
				Art Unit	2836
				Examiner Name	Jeong Wook An
Sheet	1	of	1	Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
	U1	2009/0029185-A1		01-29-2009	Lee <i>et al.</i>	ALL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1	JP	2009033106-A	02-12-2009	Taida Electronic Ind. Co., Ltd.	ALL	
	F2	JP	2012019302-A	01-26-2012	NEC Tokin Corp.	ALL	
	F3	JP	2004110854-A	04-08-2004	Yokowo Co., Ltd.	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated August 10, 2015 in Japanese Application No. 2015-172306.	
	R1	Office Action dated August 10, 2016 in Japanese Application No. 2015-172306	

Examiner Signature	/JAMES P EVANS/	Date Considered	09/08/2016
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Receipt date: 09/07/2016

13663012 -- GAU: 2836

Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13663012
	Filing Date	2012-10-29
	First Named Inventor	Jeong Wook An
	Art Unit	2836
	Examiner Name	James P. Evans
	Attorney Docket Number	SUN.LGI.420

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20130106198	A1	2013-05-02	Kuk et al.	ALL

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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²ⁱ	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	M424550	TW	U1	2012-03-11	TDK Taiwan Corporation	ALL	
	2	2012008693	WO	A2	2012-01-19	Hanrim Postech Co., Ltd. et al.	ALL	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		13663012
Filing Date		2012-10-29
First Named Inventor	Jeong Wook An	
Art Unit	2836	
Examiner Name	James P. Evans	
Attorney Docket Number	SUN.LGI.420	

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Office Action dated August 24, 2016 in Taiwanese Application No. 103130766.	

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EXAMINER SIGNATURE

Examiner Signature	/JAMES P EVANS/	Date Considered	09/08/2016
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13663012		
Filing Date	2012-10-29		
First Named Inventor	Jeong Wook An		
Art Unit	2836		
Examiner Name	James P. Evans		
Attorney Docket Number	SUN.LGI.420		

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/JEFF LLOYD/	Date (YYYY-MM-DD)	2016-09-07
Name/Print	Jeff Lloyd	Registration Number	35589

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)**

Application Number	13/663,012	Filing Date	2012-10-29	Docket Number (if applicable)	SUN.LGI.420	Art Unit	2836
First Named Inventor	Jeong Wook An			Examiner Name	James P. Evans		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

Other _____

Enclosed

Amendment/Reply

Information Disclosure Statement (IDS)

Affidavit(s)/ Declaration(s)

Other _____

MISCELLANEOUS

Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
Deposit Account No 190065

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Patent Practitioner Signature
Applicant Signature

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Signature of Registered U.S. Patent Practitioner			
Signature	JEFF LLOYD/	Date (YYYY-MM-DD)	2016-09-07
Name	JEFF LLOYD	Registration Number	35589

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13663012
	Filing Date	2012-10-29
	First Named Inventor	Jeong Wook An
	Art Unit	2836
	Examiner Name	James P. Evans
	Attorney Docket Number	SUN.LGI.420

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20130106198	A1	2013-05-02	Kuk et al.	ALL

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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	M424550	TW	U1	2012-03-11	TDK Taiwan Corporation	ALL	
	2	2012008693	WO	A2	2012-01-19	Hanrim Postech Co., Ltd. et al.	ALL	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13663012
Filing Date	2012-10-29
First Named Inventor	Jeong Wook An
Art Unit	2836
Examiner Name	James P. Evans
Attorney Docket Number	SUN.LGI.420

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Office Action dated August 24, 2016 in Taiwanese Application No. 103130766.	

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Examiner Signature	<input type="text"/>	Date Considered	<input type="text"/>
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)**

Application Number		13663012	
Filing Date		2012-10-29	
First Named Inventor	Jeong Wook An		
Art Unit	2836		
Examiner Name	James P. Evans		
Attorney Docket Number	SUN.LGI.420		

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- See attached certification statement.
 - The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/JEFF LLOYD/	Date (YYYY-MM-DD)	2016-09-07
Name/Print	Jeff Lloyd	Registration Number	35589

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date: September 7, 2016

In re Application of:

Jeong Wook AN

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No: 13663012

Filed: 29-Oct-2012

Attorney Docket No: SUN.LGI.420

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed September 7, 2016 to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

The above-identified application is withdrawn from issue for consideration of a submission under 37 CFR 1.114 (request for continued examination). See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

This application file is being referred to Technology Center AU 2836 for processing of the request for continuing examination under 37 CFR 1.114.

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	26856909
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Seneca Miller
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	07-SEP-2016
Filing Date:	29-OCT-2012
Time Stamp:	16:03:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1840
RAM confirmation Number	090816INTEFSW16031300
Deposit Account	4000
Authorized User	Seneca Miller

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	31582	no	2
			f3d45e06d06cc52ed7e9c6175b25021913e1f16b		
Warnings:					
Information:					
2	Transmittal Letter	SIDS.pdf	50651	no	3
			0eb58566c0abee2fda37b7040b57088664262d5e		
Warnings:					
Information:					
3	Quick Path Information Disclosure Statement	QPIDS-sb0009.pdf	73323	no	2
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Warnings:					
Information:					
4	Foreign Reference	F1.pdf	14927889	no	34
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Warnings:					
Information:					
5	Foreign Reference	F2.pdf	18370702	no	20
			1fbc1dc88eda00a90dd12d7aec13dde9008a5938		
Warnings:					
Information:					
6	Other Reference-Patent/App/Search documents	R1.pdf	3435682	no	13
			2e7d9166753e17e724c09d49c41d26b6555c4711		
Warnings:					
Information:					

7	Request for Continued Examination (RCE)	RCE2.pdf	697600	no	3
			471678f94f68a73d6340eabacc881a8f76825bb1		

Warnings:

Information:

8	Information Disclosure Statement (IDS) Form (SB08)	PTO-SB-08.pdf	612180	no	4
			cc8a95d34c2bd551183f9f324f266aa975e4ab4f		

Warnings:

Information:

9	Fee Worksheet (SB06)	fee-info.pdf	32450	no	2
			e20a8d901a4b5f24484d287c85c38815773653c3		

Warnings:

Information:

Total Files Size (in bytes):	38232059
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Petition Request	PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)
Application Number	13663012
Filing Date	29-Oct-2012
First Named Inventor	Jeong Wook AN
Art Unit	2836
Examiner Name	JAMES EVANS
Attorney Docket Number	SUN.LGI.420
Title	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary.

APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c).

A grantable petition requires the following items:

- (1) Petition fee; and
- (2) One of the following reasons:
 - (a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;
 - (b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or
 - (c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).

Petition Fee

<input type="radio"/> Small Entity
<input type="radio"/> Micro Entity
<input checked="" type="radio"/> Regular Undiscounted

Reason for withdrawal from issue

- One or more claims are unpatentable
- Consideration of a request for continued examination (RCE) (List of Required Documents and Fees)
- Applicant hereby expressly abandons the instant application (any attorney/agent signing for this reason must have power of attorney pursuant to 37 CFR 1.32(b)).

RCE request, submission, and fee.

- I certify, in accordance with 37 CFR 1.4(d)(4) that :
- The RCE request ,submission, and fee have already been filed in the above-identified application on
 - Are attached.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

- An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application.
- An attorney or agent registered to practice before the Patent and Trademark Office, acting in a representative capacity.
- A sole inventor
- A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application
- A joint inventor; all of whom are signing this e-petition

Signature	/JEFF LLOYD/
Name	Jeff Lloyd
Registration Number	35589

I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on September 7, 2016.

/SENECA MILLER/

Seneca Miller

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver and Method of Manufacturing the Same

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. Copies of the cited references are attached. However, Applicants have not submitted copies of the published U.S. Patent Applications cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

Applicants note that Taiwanese Publication No. M424550 and International Publication No. 2012008693, cited as F1 and F2, respectively, on the attached form PTO/SB/08 were written in foreign languages; however, English language Abstracts are provided herewith. Applicants have also included U.S. Publication No. 20130106198, cited as U1 on the attached form PTO/SB/08, which is a patent family member of F2 and is believed to be an English language

equivalent thereof. Applicants respectfully request that the references be made of record and considered in the examination of the subject application.

The undersigned hereby certifies that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement.

This Supplemental Information Disclosure Statement is being submitted with a Quick Path Information Disclosure Statement Request along with a conditional Request for Continued Examination.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,

/JEFF LLOYD/

Jeff Lloyd
Patent Attorney
Registration No. 35,589
Phone No.: 352-375-8100
Fax No.: 352-372-5800
Address: Saliwanchik, Lloyd & Eisenschenk
A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/sbm

Attachments: Form PTO/SB/08; copies of references cited.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	James P. Evans
				Art Unit	2836
				Examiner Name	Jeong Wook An
Sheet	1	of	1	Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
	U1	2009/0029185-A1		01-29-2009	Lee <i>et al.</i>	ALL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1		JP-2009033106-A	02-12-2009	Taida Electronic Ind. Co., Ltd.	ALL	
	F2		JP-2012019302-A	01-26-2012	NEC Tokin Corp.	ALL	
	F3		JP-2004110854-A	04-08-2004	Yokowo Co., Ltd.	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated August 10, 2015 in Japanese Application No. 2015-172306.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	26651128
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Jessica Cowart
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	16-AUG-2016
Filing Date:	29-OCT-2012
Time Stamp:	11:32:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$180
RAM confirmation Number	081616INTEFSW11325600
Deposit Account	2007
Authorized User	Jessica Cowart

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SIDS6.pdf	232765	yes	3
			84f06873867305f9ab1a32eb9d5b42c878b4f671		
Multipart Description/PDF files in .zip description					
Document Description		Start		End	
Transmittal Letter		1		2	
Information Disclosure Statement (IDS) Form (SB08)		3		3	
Warnings:					
Information:					
2	Foreign Reference	F1.pdf	6419791	no	13
			54b4f55d50d39f4fa6f2ce7008321240767c9418		
Warnings:					
Information:					
3	Other Reference-Patent/App/Search documents	R1.pdf	135201	no	4
			ad239a4e4e1229119d98e60b9363a62e261b9862		
Warnings:					
Information:					
4	Foreign Reference	F2-.pdf	1200602	no	21
			78518ff955cddc08994de34fb06720425caae613a		
Warnings:					
Information:					
5	Foreign Reference	F3-.pdf	2034783	no	31
			966f087560c545c740b8f1650d8b1de72ed699e4		
Warnings:					
Information:					

6	Fee Worksheet (SB06)	fee-info.pdf	30726	no	2
			393489351e6802d1990b4ea048688fc046e50c6		

Warnings:

Information:

Total Files Size (in bytes):	10053868
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on August 16, 2016.

/JESSICA COWART/

Jessica Cowart

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver And Method Of Manufacturing The Same

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. Copies of the cited references are attached. However, Applicants have not submitted copies of the published U.S. Patent Application cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

Applicants note that Japanese Publication Nos. 2009033106, 2012019302, and 2004110854, cited as F1 through F3, respectively, on the attached form PTO/SB/08 were written in a foreign language; however, English language Abstracts are provided herewith. Applicants have also included U.S. Publication No. 2009/0029185, cited as U1 on the attached form PTO/SB/08, which is a patent family member of F1 and is believed to be an English language equivalent thereof. Applicants respectfully request that the references be made of record and considered in the examination of the subject application.

The undersigned hereby certifies that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement.

This Supplemental Information Disclosure Statement is being submitted subsequent to the mailing of a Notice of Allowance but prior to payment of the Issue Fee. The fee of \$180.00 was paid at the time this statement was filed.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,

/JEFF LLOYD/

Jeff Lloyd
Patent Attorney
Registration No. 35,589
Phone No.: 352-375-8100
Fax No.: 352-372-5800
Address: Saliwanchik, Lloyd & Eisenschenk
A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/jmc

Attachments: Form PTO/SB/08; copies of references cited.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23557 7590 05/16/2016
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

Phone: (352) 375-8100 Fax: (352) 372-5800

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Jessica Cowart	(Depositor's name)
<i>Jessica Cowart</i>	(Signature)
August 16, 2016	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/663.012	10/29/2012	Jeong Wook AN	SUNJIGH 420	3575

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	08/16/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
EVANS, JAMES P	2836	307-104000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.</p>	<p>1. <u>Saliwanchik, Lloyd & Eisenschek</u></p> <p>2. _____</p> <p>3. _____</p>
--	--	--

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: LG INNOTEK CO., LTD.

(B) RESIDENCE: (CITY and STATE OR COUNTRY) SEOUL, KOREA

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

<p>4a. The following fee(s) are submitted:</p> <p><input checked="" type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input checked="" type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input checked="" type="checkbox"/> The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number <u>190065</u> (enclose an extra copy of this form).</p>
--	---

5. Change in Entity Status (from status indicated above)

Applicant certifying micro entity status. See 37 CFR 1.29

Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /JEFF LLOYD/ Date August 16, 2016

Typed or printed name Jeff Lloyd Registration No. 35,589

Electronic Acknowledgement Receipt

EFS ID:	26651167
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Jessica Cowart
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	16-AUG-2016
Filing Date:	29-OCT-2012
Time Stamp:	11:35:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$960
RAM confirmation Number	081616INTEFSW11353400
Deposit Account	2007
Authorized User	Jessica Cowart

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IFP-AF.pdf	140619	no	1
			662e02edecc8293cca865a3353dc970d540ad88a		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30661	no	2
			ec75d1b55caa25c009f3c693ab0390a633a4cd85		

Warnings:

Information:

Total Files Size (in bytes):	171280
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New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006 OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	James P. Evans
				Art Unit	2836
				Examiner Name	Jeong Wook An
Sheet	1	of	1	Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1	CN	101924398-A	12-22-2010	Zhongyou <i>et al.</i>	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated June 29, 2016 in Chinese Application No. 201510084340.1.	

Examiner Signature	/JAMES P EVANS/	Date Considered	08/04/2016
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	James P. Evans
				Art Unit	2836
				Examiner Name	Jeong Wook An
Sheet	1	of	1	Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
	F1	CN-101924398-A		12-22-2010	Zhongyou <i>et al.</i>	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated June 29, 2016 in Chinese Application No. 201510084340.1.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	13663012
Filing Date:	29-Oct-2012
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Filer:	Jeff Lloyd/Seneca Miller
Attorney Docket Number:	SUN.LGI.420

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt

EFS ID:	26341357
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Seneca Miller
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	13-JUL-2016
Filing Date:	29-OCT-2012
Time Stamp:	16:51:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$180
RAM confirmation Number	071416INTEFSW16521800
Deposit Account	2007
Authorized User	Seneca Miller

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SIDS5.pdf	246529	yes	3
			ed84c733b78f5e255ffd5b56e91e13e165a88eb		
Multipart Description/PDF files in .zip description					
Document Description		Start		End	
Transmittal Letter		1		2	
Information Disclosure Statement (IDS) Form (SB08)		3		3	
Warnings:					
Information:					
2	Foreign Reference	F1.pdf	1060338	no	15
			563c64496a1d1ec155bb162ecb55fe8c6b22eb4e		
Warnings:					
Information:					
3	Other Reference-Patent/App/Search documents	R1.pdf	2232771	no	17
			5ba2fa1ecd72fde045deb79adfc9ff49d9ce9bde		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30620	no	2
			f964f83e664b88bf5f0ab8fd45d60efc42e7c8d5		
Warnings:					
Information:					
Total Files Size (in bytes):			3570258		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.


National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on July 13, 2016.



Jeff Lloyd, Patent Attorney, Reg. No. 35,589

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver And Method Of Manufacturing The Same

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the reference listed below and on the attached form PTO/SB/08 is being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. A copy of the cited reference is attached.

Applicants note that Chinese Publication No. 101924398, cited as F1 on the attached form PTO/SB/08 was written in a foreign language; however, an English language Abstract is provided herewith. Applicants respectfully request that the reference be made of record and considered in the examination of the subject application.

The undersigned hereby certifies that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the

certification after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement.

This Supplemental Information Disclosure Statement is being submitted subsequent to the mailing of a Notice of Allowance but prior to payment of the Issue Fee. The fee of \$180.00 was paid at the time this statement was filed.

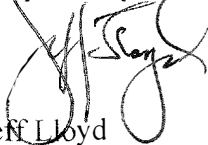
Applicants also note that the references cited on the attached form PTO/SB/08 were cited in an Office Action from a counterpart foreign application. Applicants are attaching a copy of the Chinese Office Action.

It is respectfully requested that the Examiner indicate consideration of the cited reference by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,



Jeff Lloyd

Patent Attorney

Registration No. 35,589

Phone No.: 352-375-8100

Fax No.: 352-372-5800

Address: Saliwanchik, Lloyd & Eisenschenk
A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/sbm

Attachments: Form PTO/SB/08; copies of references cited.

Electronic Acknowledgement Receipt

EFS ID:	26341357
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Seneca Miller
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	13-JUL-2016
Filing Date:	29-OCT-2012
Time Stamp:	16:51:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$180
RAM confirmation Number	071416INTEFSW16521800
Deposit Account	190065
Authorized User	Seneca Miller

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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37 CFR 1.17 (Patent application and reexamination processing fees)

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 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SIDS5.pdf	246529	yes	3
			ed84c733b78f5e255ffd5b56e91e13e165a88eb		
Multipart Description/PDF files in .zip description					
Document Description		Start		End	
Transmittal Letter		1		2	
Information Disclosure Statement (IDS) Form (SB08)		3		3	
Warnings:					
Information:					
2	Foreign Reference	F1.pdf	1060338	no	15
			563c64496a1d1ec155bb162ecb55fe8c6b22eb4e		
Warnings:					
Information:					
3	Other Reference-Patent/App/Search documents	R1.pdf	2232771	no	17
			5ba2fa1ecd72fde045deb79adfc9ff49d9ce9bde		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30620	no	2
			f964f83e664b88bf5f0ab8fd45d60efc42e7c8d5		
Warnings:					
Information:					
Total Files Size (in bytes):			3570258		

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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	13/663,012
		Filing Date	October 29, 2012
		First Named Inventor	Jeong Wook An
		Art Unit	2836
		Examiner Name	James P. Evans
Sheet	1	of	1
		Attorney Docket Number	SUN.LGI.420

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
	U1	2003/0141590-A1		07-31-2003	Kamiya <i>et al.</i>	ALL
	U2	2007/0007661-A1		01-11-2007	Burgess <i>et al.</i>	ALL
	U3	2016/0118711-A1		04-28-2016	Finn <i>et al.</i>	ALL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1 ⁶
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated June 2, 2016 in U.S. Application No. 14/387,521.	

Examiner Signature	/JAMES P EVANS/	Date Considered	06/14/2016
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*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/663,012, 10/29/2012, Jeong Wook AN, SUN.LGI.420, 3575
Row 2: 23557, 7590, 06/23/2016, Saliwanchik, Lloyd & Eisenschenk A Professional Association, PO Box 142950, Gainesville, FL 32614
Row 3: EXAMINER EVANS, JAMES P
Row 4: ART UNIT 2836, PAPER NUMBER
Row 5: NOTIFICATION DATE 06/23/2016, DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

euspto@slpatents.com

Corrected Notice of Allowability	Application No. 13/663,012	Applicant(s) AN ET AL.	
	Examiner JAMES P. EVANS	Art Unit 2836	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to IDS Filed on 6/7/2016.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1,3,6,7,9,11-13,19 and 21-32. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some *c) None of the:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Examiner's Amendment/Comment 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____. |
|--|---|

/JUNG KIM/ Primary Examiner, Art Unit 2842	/JAMES P EVANS/ Examiner, Art Unit 2836
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	13/663,012
				Filing Date	October 29, 2012
				First Named Inventor	Jeong Wook An
				Art Unit	2836
Examiner Name	James P. Evans				
Attorney Docket Number	SUN.LGI.420				
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	2003/0141590-A1	07-31-2003	Kamiya <i>et al.</i>	ALL
	U2	2007/0007661-A1	01-11-2007	Burgess <i>et al.</i>	ALL
	U3	2016/0118711-A1	04-28-2016	Finn <i>et al.</i>	ALL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated June 2, 2016 in U.S. Application No. 14/387,521.	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	25990835
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Seneca Miller
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	07-JUN-2016
Filing Date:	29-OCT-2012
Time Stamp:	14:00:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$180
RAM confirmation Number	190
Deposit Account	190065
Authorized User	LLOYD, JEFF

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)
 Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)
 Charge any Additional Fees required under 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SIDS4.pdf	223737 9dce6107c860c27b8f3588d698b93415910fddc1	yes	3
Multipart Description/PDF files in .zip description					
	Document Description		Start		End
	Transmittal Letter		1		2
	Information Disclosure Statement (IDS) Form (SB08)		3		3
Warnings:					
Information:					
2	Other Reference-Patent/App/Search documents	R1.pdf	22555819 1a659459c0719b2bcd7cdd652f07504a9db79aac	no	20
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30621 fa84205e773f180113eadb5411e8d1b2f1c5d6eb	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			22810177		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on June 7, 2016.

Jeff Lloyd, Patent Attorney, Reg. No. 35,589



SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver And Method Of Manufacturing The Same

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. However, Applicants have not submitted copies of the published U.S. Patent Applications cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii). Applicants respectfully request that the references be made of record and considered in the examination of the subject application.

The undersigned hereby certifies that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37

J:\SUN\LGI\420\IDS-Refs\6-7-16\SIDS4 doc/sbm

C.F.R. 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement.

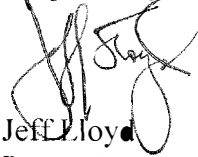
This Information Disclosure Statement is being submitted subsequent to the mailing of a Notice of Allowance but prior to payment of the Issue Fee. The fee of \$180.00 was paid at the time this statement was filed.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,



Jeff Lloyd

Patent Attorney

Registration No. 35,589

Phone No.: 352-375-8100

Fax No.: 352-372-5800

Address: Saliwanchik, Lloyd & Eisenschenk
A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/sbm

Attachment: Form PTO/SB/08.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23557 7590 05/16/2016
SALIWANCIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

EXAMINER
EVANS, JAMES P
ART UNIT 2836 PAPER NUMBER

DATE MAILED: 05/16/2016

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.
If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.
If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".
For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23557 7590 05/16/2016
SALIWANCIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/663,012	10/29/2012	Jeong Wook AN	SUN.LGL420	3575

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	08/16/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
EVANS, JAMES P	2836	307-104000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2</p> <p>_____ 3</p>
---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
---	---

5. Change in Entity Status (from status indicated above)

Applicant certifying micro entity status. See 37 CFR 1.29

Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/663,012 10/29/2012 Jeong Wook AN SUN.LGI.420 3575

23557 7590 05/16/2016
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

EXAMINER

EVANS, JAMES P

ART UNIT PAPER NUMBER

2836

DATE MAILED: 05/16/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/663,012	Applicant(s) AN ET AL.	
	Examiner JAMES P. EVANS	Art Unit 2836	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to RCE filed on 4/25/2016.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1,3,6,7,9,11-13,19 and 21-32. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some *c) None of the:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>4/21/2016</u> | 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/KENNETH B WELLS/
Primary Examiner, Art Unit 2842

/JAMES P EVANS/
Examiner, Art Unit 2836

EAST Search History

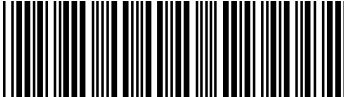
EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L70	107183	((wire\$1less\$2 or wire ADJ less or inductive or contact\$1less\$2 or (contact adj3 less) or (non adj3 contact\$3)) NEAR3 (power energy transmission transmit\$4)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 18:56
L77	23	L70 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) NEAR5 substrate) SAME ((second 2nd)ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:05
L78	2	L77 AND ((coil inductor inductance winding antenna) WITH (third 3rd) ADJ2 (terminal electrode end terminus "connecting land" end) WITH (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:06
L79	1	"20130249302"	US-PGPUB; USPAT	OR	ON	2016/05/07 19:07
L81	31	L70 AND ((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) WITH substrate) SAME ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:08
L85	355	L70 AND (((coil inductor inductance winding antenna) WITH (conductive conducting copper etch\$3 PCB printed layer pattern) WITH substrate)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:10
L87	66	L85 AND ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:11
L88	9	L87 AND ((fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:12
L89	66	L87 AND ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:12
L92	104	L85 AND ((space or spacing or hole or opening or slot or slotted or gap or notch\$2 or recess\$2 or shape\$2 or cut-out or design or designed or pattern\$2 or cutout or "cut out" or configured or configuration or layout or "lay out" or layout or "laid out") WITH (substrate or board or printed-circuit-board or PCB or base) WITH (connect\$3 coupl\$3)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/07 19:23
L93	2	L92 AND ((second 2nd) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	US-PGPUB;	OR	ON	2016/05/07 19:26

		end) AND (fourth 4th) ADJ2 (terminal electrode end terminus "connecting land" end)).clm.	USPAT			
S229	104681	((coil inductor inductance winding antenna loop) WITH (conductive conducting copper etch\$3 PCB printed layer pattern)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19:16:09
S230	21955	S229 AND ((terminal electrode end terminus "connecting land" end) NEAR3 (second another other)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19:16:11
S231	4812	S230 AND (receiv\$3 or reception or pick-up or pickup or "pick up" or secondary or target) SAME ((wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or (RF or R F or radio\$1frequenc\$3 or radio frequency))).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19:16:12
S232	1227	S231 AND ((space or spacing or hole or opening or slot or slotted or gap or notch or notched or recess or recessed or shape or shaped or cut-out or design or designed or pattern or patterned or cutout or "cut out" or configured or configuration or layout or "lay out" or lay-out or "laid out") WITH (substrate or board or printed-circuit-board or base)).clm.	US-PGPUB; USPAT	ADJ	ON	2016/01/19:16:14
S233	35	S232 AND (third ADJ2 (terminal electrode end terminus "connecting land" end contact pin)) AND (fourth ADJ2 (terminal electrode end terminus "connecting land" end contact pin)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19:16:20
S234	0	S233 AND ((coil loop inductor inductance pattern conductive) NEAR3 (overlap\$4) NEAR3 (space gap notch notched)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19:16:41
S235	0	S233 AND ((coil loop inductor inductance pattern conductive) NEAR3 (cross\$3 across)) NEAR3 (space gap notch).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19:16:43
S236	0	S233 AND (((coil loop inductor inductance pattern conductive) NEAR3 (top)) NEAR3 (substrate)).clm.	US-PGPUB; USPAT	OR	ON	2016/01/19:16:46

5/ 7/ 2016 7:29:03 PM

C:\Users\jevans2\Documents\EAST\Workspaces\13663012.wsp

Search Notes 	Application/Control No. 13663012	Applicant(s)/Patent Under Reexamination AN ET AL.
	Examiner JAMES P EVANS	Art Unit 2836

CPC- SEARCHED		
Symbol	Date	Examiner
H04B5/0037	1/29/2015	JPE
H04B5/0081	1/29/2015	JPE
H01F41/14	1/29/2015	JPE
H01F38/14	8/13/2015	JPE
Re-searched all symbols above	1/19/2016	JPE
Re-searched all symbols above	5/7/2016	JPE

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
307	104	1/29/2015	JPE
713	300	8/13/2015	JPE
Re-searched all above	Re-searched all subclasses above	1/19/2016	JPE
Re-searched all classes above	Re-searched all subclasses above	5/7/2016	JPE

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	1/21/2015	JPE
Keyword search	1/20/2015	JPE
IP.com search	1/20/2015	JPE
and all docs cited in European search report	1/20/2015	JPE
Search with SSE (Michael Obinna)	1/26/2015	JPE
Consulted Jared Fureman (SPE)	1/29/2015	JPE
Consulted Primary Dan Cavallari	8/13/2015	JPE
Consulted Primary Alex Gilman in Connectors	8/13/2015	JPE

/JAMES P EVANS/ Examiner.Art Unit 2836	
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SEARCH NOTES

Search Notes	Date	Examiner
Consulted Primary Carlos Amaya	8/14/2015	JPE
Consulted Primary Bob Deberadinis	8/17/2015	JPE
Searched amended claims	1/19/2016	JPE
Consulted Primary Ken Wells	1/19/2016	JPE
Added IDS docs, reviewed them, and performed augmented searches	5/7/2016	JPE
Consulted Primary Ken Wells	5/7/2016	JPE

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
H04B	5/0037	1/19/2016	JPE
Re-searched above	Re-searched above	5/7/2016	JPE


/JAMES P EVANS/
Examiner.Art Unit 2836

Issue Classification 	Application/Control No. 13663012	Applicant(s)/Patent Under Reexamination AN ET AL.
	Examiner JAMES P EVANS	Art Unit 2836

CPC					
Symbol				Type	Version
H04B	5	/	0037	F	2013-01-01
Y10T	29	/	4902	A	2015-01-15
B60L	11	/	182	I	2013-01-01
G06K	19	/	0723	I	2013-01-01
H02J	5	/	005	I	2013-01-01
H02J	7	/	025	I	2013-01-01
H01F	41	/	14	I	2013-01-01
H04B	5	/	0081	I	2013-01-01
Y02T	90	/	122	A	2013-01-01
H02J	17	/	00	I	2013-01-01
Y02T	10	/	7005	A	2013-01-01
Y02T	90	/	16	A	2013-01-01
Y02T	90	/	14	A	2013-01-01
Y02T	10	/	7072	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

/JAMES P EVANS/ Examiner.Art Unit 2836	05/09/2016 (Date)	Total Claims Allowed: 21	
/KENNETH B WELLS/ Primary Examiner.Art Unit 2842 (Primary Examiner)	05/09/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 11

Issue Classification 	Application/Control No. 13663012	Applicant(s)/Patent Under Reexamination AN ET AL.
	Examiner JAMES P EVANS	Art Unit 2836

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47									
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	-	17												
-	2	-	18												
2	3	9	19												
-	4	-	20												
-	5	10	21												
3	6	11	22												
4	7	20	23												
-	8	12	24												
5	9	13	25												
-	10	14	26												
6	11	15	27												
7	12	16	28												
8	13	17	29												
-	14	18	30												
-	15	21	31												
-	16	19	32												

/JAMES P EVANS/ Examiner.Art Unit 2836 (Assistant Examiner)	05/09/2016 (Date)	Total Claims Allowed: 21	
/KENNETH B WELLS/ Primary Examiner.Art Unit 2842 (Primary Examiner)	05/09/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 11

PTO/SB/08A (08-03)
 Approved for use through 07/31/2006. OMB 0851-0031
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known			
			Application Number	13/663,012		
			Filing Date	October 29, 2012		
			First Named Inventor	Jeong Wook An		
			Art Unit	2836		
			Examiner Name	James P. Evans		
Sheet	1	of	2	Attorney Docket Number	SUN.LG1.420	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	2011/0285494-A1	11-24-2011	Jeong <i>et al.</i>	ALL
	U2	2006/0166506-A1	07-27-2006	Okawa <i>et al.</i>	ALL
	U3	2008/0129439-A1	06-05-2008	Nishikawa <i>et al.</i>	ALL
	U4	2011/0127070-A1	06-02-2011	Ahn <i>et al.</i>	ALL
	U5	2014/0091640-A1	04-03-2014	Scholz <i>et al.</i>	ALL
	U6	2005/0072595-A1	04-07-2005	Se-hoon Cho	ALL
	U7	2007/0020932-A1	01-25-2007	Maruyama <i>et al.</i>	ALL
	U8	2010/0289341-A1	11-18-2010	Ozaki <i>et al.</i>	ALL
	U9	2005/0116874-A1	06-02-2005	El-Mahdawy <i>et al.</i>	ALL
	U10	2007/0254432-A1	11-01-2007	Yamazaki <i>et al.</i>	ALL
	U11	2007/0279002-A1	12-06-2007	Afshin Partovi	ALL
	U12	2010/0308187-A1	12-09-2010	Pi-Fen Lin	ALL
	U13	2011/0267248-A1	11-03-2011	Remski <i>et al.</i>	ALL
	U14	2008/0200210-A1	08-21-2008	Lim <i>et al.</i>	ALL
	U15	2012/0019075-A1	01-26-2012	Cho <i>et al.</i>	ALL
	U16	2012/0049986-A1	03-01-2012	Cho <i>et al.</i>	ALL
	U17	2008/0266748-A1	10-30-2008	Hyung-Joo Lee	ALL

Examiner Signature	/JAMES P EVANS/	Date Considered	04/26/2016
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-766-9199) and select option 2.

PTO/SB/08A (08-03)
 Approved for use through 07/31/2008. OMB 0651-0031
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	13/663,012	
			Filing Date	October 29, 2012	
			First Named Inventor	Jeong Wook An	
			Art Unit	2836	
			Examiner Name	James P. Evans	
Sheet	2	of	2	Attorney Docket Number	SUN.LGI.420

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1	CN	102360718-A	02-22-2012	Samsung Electro Mechanics KK.	ALL	
	F2	CN	1784510-A	06-07-2006	TDK Corp.	ALL	
	F3	CN	101256876-A	09-03-2008	TDK Corp.	ALL	
	F4	CN	102083280-A	06-01-2011	LG Innotek Co., Ltd.	ALL	
	F5	WO	2012150293-A1	11-08-2012	Scholz <i>et al.</i>	ALL	
	F6	JP	2011097534-A	05-12-2011	Tokai Rika Co. Ltd.	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated December 21, 2015 in Chinese Application No. 201380026460.5.	
	R2	European Search Report dated February 4, 2016 in European Application No. 13763524.9.	
	R3	International Search Report dated July 25, 2013 in International Application No. PCT/KR2013/002406.	
	R4	International Search Report dated July 26, 2013 in International Application No. PCT/KR2013/002412.	

Examiner Signature	/JAMES P EVANS/	Date Considered	04/26/2016
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)

Application Number	13/663,012	Filing Date	2012-10-29	Docket Number (if applicable)	SUN.LGI.420	Art Unit	2836
First Named Inventor	Jeong Wook An			Examiner Name	James P. Evans		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

Other _____

Enclosed

Amendment/Reply

Information Disclosure Statement (IDS)

Affidavit(s)/ Declaration(s)

Other

MISCELLANEOUS

Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

Other _____

FEEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Patent Practitioner Signature

Applicant Signature

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	JEFF LLOYD/	Date (YYYY-MM-DD)	2016-04-25
Name	Jeff Lloyd	Registration Number	35589

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	25588197
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Seneca Miller
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	25-APR-2016
Filing Date:	29-OCT-2012
Time Stamp:	15:55:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1700
RAM confirmation Number	2442
Deposit Account	190065
Authorized User	LLOYD, JEFF

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)
 Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)
 Charge any Additional Fees required under 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	TransLtr.pdf	46465 45b40d81ff89428283f5377a8f1b0773b75e69e	no	1
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	RCE-EFS.pdf	697679 959acffec68ae831f970e0d372cfd34110a7e01d	no	3
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30538 f573cd879bcb3388d7482b3e8ba70c158669779b	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			774682		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

April 25, 2016

TRANSMITTAL LETTER
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver and Method of Manufacturing the Same

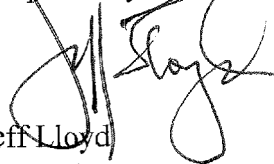
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

TRANSMITTAL LETTER

Sir:

Further to the Supplemental Information Disclosure Statement filed on April 21, 2016, Applicants are submitting herewith a Request for Continued Examination. Accordingly, entry and consideration of the Supplemental Information Disclosure Statement and the references cited therein is respectfully requested.

Respectfully submitted,



Jeff Lloyd

Patent Attorney

Registration No. 35,589

Phone No.: 352-375-8100

Fax No.: 352-372-5800

Address: P.O. Box 142950

Gainesville, FL 32614-2950

JL/sbm

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Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	13/663,012
			Filing Date	October 29, 2012
			First Named Inventor	Jeong Wook An
			Art Unit	2836
			Examiner Name	James P. Evans
			Attorney Docket Number	SUN.LGI.420
Sheet	1	of	2	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	2011/0285494-A1	11-24-2011	Jeong <i>et al.</i>	ALL
	U2	2006/0166506-A1	07-27-2006	Okawa <i>et al.</i>	ALL
	U3	2008/0129439-A1	06-05-2008	Nishikawa <i>et al.</i>	ALL
	U4	2011/0127070-A1	06-02-2011	Ahn <i>et al.</i>	ALL
	U5	2014/0091640-A1	04-03-2014	Scholz <i>et al.</i>	ALL
	U6	2005/0072595-A1	04-07-2005	Se-hoon Cho	ALL
	U7	2007/0020932-A1	01-25-2007	Maruyama <i>et al.</i>	ALL
	U8	2010/0289341-A1	11-18-2010	Ozaki <i>et al.</i>	ALL
	U9	2005/0116874-A1	06-02-2005	El-Mahdawy <i>et al.</i>	ALL
	U10	2007/0254432-A1	11-01-2007	Yamazaki <i>et al.</i>	ALL
	U11	2007/0279002-A1	12-06-2007	Afshin Partovi	ALL
	U12	2010/0308187-A1	12-09-2010	Pi-Fen Lin	ALL
	U13	2011/0267248-A1	11-03-2011	Remski <i>et al.</i>	ALL
	U14	2008/0200210-A1	08-21-2008	Lim <i>et al.</i>	ALL
	U15	2012/0019075-A1	01-26-2012	Cho <i>et al.</i>	ALL
	U16	2012/0049986-A1	03-01-2012	Cho <i>et al.</i>	ALL
	U17	2008/0266748-A1	10-30-2008	Hyung-Joo Lee	ALL

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-766-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	13/663,012	
			Filing Date	October 29, 2012	
			First Named Inventor	Jeong Wook An	
			Art Unit	2836	
			Examiner Name	James P. Evans	
Sheet	2	of	2	Attorney Docket Number	SUN.LGI.420

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)				
	F1	CN	102360718-A	02-22-2012	Samsung Electro Mechanics KK.	ALL	
	F2	CN	1784510-A	06-07-2006	TDK Corp.	ALL	
	F3	CN	101256876-A	09-03-2008	TDK Corp.	ALL	
	F4	CN	102083280-A	06-01-2011	LG Innotek Co., Ltd.	ALL	
	F5	WO	2012150293-A1	11-08-2012	Scholz <i>et al.</i>	ALL	
	F6	JP	2011097534-A	05-12-2011	Tokai Rika Co. Ltd.	ALL	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	Office Action dated December 21, 2015 in Chinese Application No. 201380026460.5.	
	R2	European Search Report dated February 4, 2016 in European Application No. 13763524.9.	
	R3	International Search Report dated July 25, 2013 in International Application No. PCT/KR2013/002406.	
	R4	International Search Report dated July 26, 2013 in International Application No. PCT/KR2013/002412.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	25562894
Application Number:	13663012
International Application Number:	
Confirmation Number:	3575
Title of Invention:	WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME
First Named Inventor/Applicant Name:	Jeong Wook AN
Customer Number:	23557
Filer:	Jeff Lloyd/Seneca Miller
Filer Authorized By:	Jeff Lloyd
Attorney Docket Number:	SUN.LGI.420
Receipt Date:	21-APR-2016
Filing Date:	29-OCT-2012
Time Stamp:	16:56:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$180
RAM confirmation Number	3708
Deposit Account	190065
Authorized User	LLOYD, JEFF

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)
 Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)
 Charge any Additional Fees required under 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SIDS3.pdf	158587 654d5fe51611256633a69e489c22f7e9d65c f185	yes	5
Multipart Description/PDF files in .zip description					
	Document Description		Start	End	
	Transmittal Letter		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	5	
Warnings:					
Information:					
2	Foreign Reference	F1.pdf	12126948 153d3da2faf69a3a5fd8eba6c8fd9ccac57dc b48	no	14
Warnings:					
Information:					
3	Foreign Reference	F2.pdf	20706956 20fdcbbe4892a47a89d777724ea3acb4e7 ec199	no	23
Warnings:					
Information:					
4	Foreign Reference	F3.pdf	8982033 f2d12e6fea94fdc447b89ae3e780ff5038c91 434	no	26
Warnings:					
Information:					
5	Foreign Reference	F4.pdf	15472141 34db43b087720d0433a41550d503040b19 415ecb	no	18
Warnings:					
Information:					
6	Foreign Reference	F5.pdf	15873166 0b1ee5f34ce1b6394fb2609cfae4747a3ce2f b0a	no	50
Warnings:					
Information:					

7	Foreign Reference	F6.pdf	739479 901a327ad3eb8b30a26b7f6cbd02e9b2367929ae	no	34
Warnings:					
Information:					
8	Other Reference-Patent/App/Search documents	R1.pdf	190240 9f80c60df525f44ccab7cc7460628416d59f86b5	no	8
Warnings:					
Information:					
9	Other Reference-Patent/App/Search documents	R2.pdf	9353799 ee603f61f0a2c022ed5e49ed39af2fead57d51e5	no	9
Warnings:					
Information:					
10	Other Reference-Patent/App/Search documents	R3.pdf	215216 cb7ba5457bb62219048308387477801f7651253f	no	3
Warnings:					
Information:					
11	Other Reference-Patent/App/Search documents	R4.pdf	181564 181385f7a7f3ac6287918f2c45b244c097c38539	no	3
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Information:					
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Warnings:					
Information:					
Total Files Size (in bytes):			84030749		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

I hereby certify that this correspondence is being electronically filed in the United States Patent and Trademark Office on April 21, 2016.

/SENECA MILLER/

Seneca B. Miller

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 C.F.R §§ 1.97 AND 1.98
Examining Group 2836
Patent Application
Docket No. SUN.LGI.420
Serial No. 13/663,012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : James P. Evans
Art Unit : 2836
Applicants : Jeong Wook An, Jung Oh Lee, Sung Hyun Leem, Yang Hyun Kim
Serial No. : 13/663,012
Filed : October 29, 2012
Conf. No. : 3575
For : Wireless Power Receiver And Method Of Manufacturing The Same

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the patent application identified above. Copies of the cited references are attached. However, Applicants have not submitted copies of the published U.S. Patent Applications cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

Applicants note that Chinese Publication Nos. 102360718, 1784510, 101256876, and 102083280, International Publication No. 2012150293 and Japanese Publication No. 2011097534, cited as F1 through F6, respectively, on the attached form PTO/SB/08 were written in foreign languages; however, English language Abstracts are provided herewith. Applicants have also included U.S. Publication Nos. 2011/0285494, 2006/0166506, 2008/0129439, 2011/0127070, and 2014/0091640, cited as U1 through U5, respectively, on the attached form

PTO/SB/08, which are patent family members of F1 through F5, respectively, and are believed to be English language equivalents thereof. Applicants respectfully request that the references be made of record and considered in the examination of the subject application.

Applicants also note that the references cited on the attached form PTO/SB/08 were cited in International Search Reports, a European Search Report and an Office Action from counterpart foreign applications. Applicants are attaching copies of the International Search Reports, European Search Report, and Chinese Office Action.

The undersigned hereby certifies that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement.

This Supplemental Information Disclosure Statement is being submitted subsequent to the mailing of a Notice of Allowance but prior to payment of the Issue Fee. The fee of \$180.00 was paid at the time this statement was filed.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.56, 1.97, and 1.98 are met by the foregoing statements.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,

/JEFF LLOYD/

Jeff Lloyd
Patent Attorney
Registration No. 35,589
Phone No.: 352-375-8100
Fax No.: 352-372-5800
Address: Saliwanchik, Lloyd & Eisenschenk
A Professional Association
P.O. Box 142950
Gainesville, FL 32614-2950

JL/sbm

Attachments: Form PTO/SB/08; copies of references cited.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23557 750 01/26/2016
SALIWANCIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

EXAMINER
EVANS, JAMES P
ART UNIT PAPER NUMBER
2836

DATE MAILED: 01/26/2016

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/663,012 10/29/2012 Jeong Wook AN SUN.LGL420 3575

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional UNDISCOUNTED \$960 \$0 \$0 \$960 04/26/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23557 7590 01/26/2016
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/663,012	10/29/2012	Jeong Wook AN	SUN.LGL420	3575

TITLE OF INVENTION: WIRELESS POWER RECEIVER AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	04/26/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
EVANS, JAMES P	2836	307-104000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2</p> <p>_____ 3</p>
---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
---	---

5. Change in Entity Status (from status indicated above)

Applicant certifying micro entity status. See 37 CFR 1.29

Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Values: 13/663,012, 10/29/2012, Jeong Wook AN, SUN.LGI.420, 3575

23557 759 01/26/2016
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

Table with 2 columns: EXAMINER, ART UNIT, PAPER NUMBER
Values: EVANS, JAMES P, 2836

DATE MAILED: 01/26/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/663,012	Applicant(s) AN ET AL.	
	Examiner JAMES P. EVANS	Art Unit 2836	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendments filed 10/7/2015.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1,3,6,7,9,11-13,19 and 21-32. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/oph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some *c) None of the:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ . | |

/JAMES P EVANS/
Examiner, Art Unit 2836

/KENNETH B WELLS/
Primary Examiner, Art Unit 2842

REASONS FOR ALLOWANCE

Claims 1, 3, 6, 7, 9, 11-13, 19 and 21-32 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 23 and 31, these claims are allowable in view of the amendments made thereto filed on 10/07/2015.

Regarding claim 1, none of the prior art of record discloses or suggests a wireless power receiver wherein the coil is configured to wirelessly receive power, wherein the coil is formed as a conductive pattern on or within the substrate, wherein the conductive pattern includes a conductive line wound at least two times and the conductive pattern has a spiral shape, and wherein the coil overlaps the receiving space in a vertical direction perpendicular to an upper surface of the substrate.

Therefore the configuration of a wireless power receiver as claimed is not disclosed by the prior art of record and is not specifically directed to the claimed arrangement, thus the claim has been found novel and non-obvious.

Regarding claims 3, 6, 7, 9, 11-13, 19, 21, 22, 24-30 and 32, which depend on claim 1, these claims are allowed in view of their dependency on claim 1.

Regarding claim 23, none of the prior art of record discloses or suggests a wireless power receiver wherein the coil is formed as line wound at least two times and the conductive pattern has a spiral shape, and wherein the coil unit is disposed on a top surface of the substrate and the connecting unit.

Art Unit: 2836

Therefore the configuration of a wireless power receiver as claimed is not disclosed by the prior art of record and is not specifically directed to the claimed arrangement, thus the claim has been found novel and non-obvious.

Regarding claim 31, none of the prior art of record discloses or suggests a wireless power receiver wherein the coil is formed as a conductive pattern on or within the substrate, wherein the conductive pattern includes a conductive line wound at least two times and the conductive pattern has a spiral shape, and wherein the conductive line of the conductive pattern crosses over the receiving space.

Therefore the configuration of a wireless power receiver as claimed is not disclosed by the prior art of record and is not specifically directed to the claimed arrangement, thus the claim has been found novel and non-obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES P. EVANS whose telephone number is (571) 270-0639. The examiner can normally be reached on Monday-Friday 8 AM-5pm ET.

Application/Control Number: 13/663,012

Page 4

Art Unit: 2836

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jared Fureman can be reached on 571-272-2391. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KENNETH B WELLS/
Primary Examiner, Art Unit 2842

/JAMES P EVANS/
Examiner, Art Unit 2836

Notice of References Cited	Application/Control No. 13/663,012	Applicant(s)/Patent Under Reexamination AN ET AL.	
	Examiner JAMES P. EVANS	Art Unit 2836	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2008/0164840 A1	07-2008	Kato; Hiroshi	H01F27/2804	320/108
*	B	US-7,259,672 B2	08-2007	Takei; Yoshiki	G06K19/067	340/572.1
*	C	US-4,947,180 A	08-1990	Schotz; Larry	H01Q7/00	343/743
*	D	US-2012/0248981 A1	10-2012	Karalis; Aristeidis	H03H7/40	315/70
*	E	US-2009/0115681 A1	05-2009	Lai; Ming-lu	H01Q3/26	343/850
*	F	US-8,947,189 B2	02-2015	Maruyama; Yoshikazu	H01F17/0013	29/602.1
*	G	US-2013/0271328 A1	10-2013	Nickel; Joshua G.	G01R29/10	343/703
*	H	US-2014/0226293 A1	08-2014	SATO; Keisuke	G06K19/07769	361/752
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	57	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140306656-\$ or US-20140175895-\$ or US-20120187767-\$ or US-20110101788-\$ or US-20130200716-\$ or US-20090284341-\$ or US-20130126622-\$ or US-20120248981-\$ or US-20140226293-\$ or US-20150109167-\$ or US-20090115681-\$ or US-20130271328-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$ or US-8653927-\$ or US-7392013-\$ or US-8092251-\$ or US-8947189-\$ or US-4947180-\$ or US-7259672-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$ or JP-H0732100-\$ or GB-981380-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$ or JP-2011109546-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2016/01/19 16:47
S1	1	"20130249302"	US-PGPUB; USPAT	OR	ON	2015/01/20 10:41
S2	8	("20050046573" "20080122570" "20080154178" "20080197957" "20090058358" "20100277004" "20120057322" "6008622").PN.	US-PGPUB; USPAT	OR	ON	2015/01/20 10:51
S3	175746	(coil\$1 or winding\$1) WITH (power or energy or current) WITH (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 11:23
S4	5375	(substrate or base or core or "ferrite magnet layer") WITH (space or shape or shaped) WITH (connector or "connecting unit") WITH (terminal or lead or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/01/20 11:34

			DERWENT; IBM_TDB			
S5	175746	(coil\$1 or winding\$1) WITH (power or energy or current) WITH (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:06
S6	5375	(substrate or base or core or "ferrite magnet layer") WITH (space or shape or shaped) WITH (connector or "connecting unit") WITH (terminal or lead or "connecting land")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:06
S7	158	S6 AND S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:06
S8	398217	(coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:23
S9	27303	(substrate or base or core or "ferrite magnet layer") SAME (space or shape or shaped) SAME (connector or "connecting unit") SAME (terminal or lead or "connecting land")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:23
S10	1934	S9 SAME S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 12:24
S11	392	WO adj "2008053599" WO adj "2013174340" EP adj "1870984" WO adj "2012169728" WO adj "2006127829" EP adj "0037921" WO adj "2005034152" WO adj "1992014254" WO adj "2006134712" WO adj "2007007516" WO adj "2007055265" "20030006657" EP adj "2642632" EP adj "2202499" EP adj "2642632" CN adj "1110225" "3634878" "3848208" "20130249302" WO adj "2006047953" CN adj "1151100" WO adj "2013149781" CN adj "103326473" JP adj "2012235630" "5724018" CN adj "100466382" CN adj "101071909" EP adj "2367263" WO adj "2011147451" WO adj "2014183352" EP adj "1487087" WO	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 13:52

		adj "2004045050" WO adj "2009070705" JP adj "2013138404" WO adj "2004030845" EP adj "2309620" JP adj "2005065018" JP adj "2004023961" JP adj "2010110168" EP adj "2256751" WO adj "2009155030" EP adj "2642591" WO adj "2012015839" EP adj "2814047" JP adj "2004072867" "2091798" WO adj "1993013532" WO adj "2008135507" "3660791" WO adj "2006101049" WO adj "2002046653" WO adj "2007049788" JP adj "2001144642" "3146419" EP adj "1868280" EP adj "1883998" JP adj "2014023281" "3792410" CN adj "201340774" "20060278387" CN adj "1855761" JP adj "2013157917" EP adj "1717967" CN adj "101189692" CN adj "102056328" "3848205" WO adj "2013022255" JP adj "2014027102" EP adj "1821556" "3767102" EP adj "2375531" JP adj "2008017141" WO adj "2005034307" JP adj "2010093386" EP adj "2629361" WO adj "2005030528" CN adj "1941230" "3163840" "3863040"				
S12	299	((substrate or base or core or "ferrite magnet layer")(space or shape or shaped) (connector or "connecting unit") (terminal or lead or "connecting land") or (coil or winding) or power or energy or current or terminal or relectrode) AND S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 13:58
S13	3	EP adj "2642632"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 14:51
S14	22	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$.did. or (WO-2013120710-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or US-20130249302-\$.did.	US-PGPUB; USPAT; FPRS; JPO; DERWENT	OR	ON	2015/01/20 15:01
S15	22	((substrate or base or core or "ferrite magnet layer")(space or shape or shaped) (connector or "connecting unit") (terminal or lead or "connecting land") or (coil or winding) or power or energy or current or terminal or relectrode) AND S14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 15:01

EAST Search History

S16	2	"20080164840"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/20 17:13
S17	6	"39593692".FMID.	US-PGPUB; USPAT; FPRS	OR	ON	2015/01/20 17:15
S18	2	"20120044114"	US-PGPUB; USPAT	OR	ON	2015/01/20 17:26
S19	3	((("Jeong Wook") near2 (AN)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:52
S20	2	((("Jeong Wook") near2 (AN)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 08:54
S21	8	((("Jung Oh") near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:55
S22	1	((("Jung Oh") near2 (LEE)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 08:57
S23	3	((("Sung Hyun") near2 (LEEM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 08:58
S24	0	((("Sung Hyun") near2 (LEEM)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 09:04
S25	7	((("Yang Hyun") near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/01/21 09:05
S26	3	((("Yang Hyun") near2 (KIM)).INV.	EPO; JPO; DERWENT	OR	ON	2015/01/21 09:19
S27	5	"47598569".FMID.	US-PGPUB; USPAT; FPRS	OR	ON	2015/01/23 11:34
S28	24	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$.did. or (WO-2013120710-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$.did. or (WO-2013065245-\$ or CN-203326731-\$.did.	US-PGPUB; USPAT; FPRS; JPO; DERWENT	OR	ON	2015/01/26 13:45
S29	2993903	(wire\$1less\$2 or wire less or inductive or contact\$1less\$2 or contact less or non contact\$3 or remote\$2 or ((free or without or lack\$3 or no or less) near2 (contact\$3 or connect\$3)) or (RF or R F or radio\$1frequenc\$3 or radio frequency) near3 (transmission or network\$3 or LAN or control\$3) or	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26 14:02

		connectionless)				
S30	1440492	(receiv\$3 or accept\$3 or obtain\$3 or recover\$3 or receipt or retriev\$3 or acquir\$3 or acquisition) near3 (spac\$3 or hole or opening or slot or gap or notch or port)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:07
S31	3326212	(predetermin\$5 or predefined or set or prescribed or fixed or preselect\$3 or establish\$3 or prestablish\$3 or standard or desired or reference or known or specific\$4 or select\$4 or fixed or defin\$4 or precis\$3 or certain or preset or particular) near3 (size or shape or dimension or design or pattern or cutout or configuration or layout)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:10
S32	2674608	(coil or transmit\$4 or transmission or receiv\$3 or transceiv\$3 or antenna\$2 or transponder) near3 (unit or module or circuit or assembly or device)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:19
S33	2115289	(connect\$3 or link\$3 or coupl\$3 or join\$3) near3 (terminal or node or lead or electrode or contact)	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:22
S34	80414	S29 SAME S30	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:28
S35	2254	S34 SAME S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:29
S36	328	S35 SAME S32	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:30
S37	52	S36 SAME S33	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:30
S38	133047	S29 SAME S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:31
S39	2254	S38 SAME S30	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:31
S40	5809	S30 near3 S31	US-PGPUB; USPAT; USOCR	ADJ	ON	2015/01/26; 14:32
S43	27	jp and "2006042519"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27; 12:52
S44	0	jp and "04-51115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27; 14:35
S45	4911	jp and "rotary transformer"	US-PGPUB;	OR	ON	2015/01/27;

EAST Search History

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:36
S46	0	jp and "rotary transformer" and "flexible substrate (35)"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:37
S47	20	jp and "rotary transformer" and "flexible substrate"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:37
S51	2	"4-51115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:42
S52	61	"hitachi ferrite" and "rotary transformer"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:49
S53	17	"hitachi ferrite" and "rotary transformer" and grooves	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/27 14:52
S57	4554	"satoshi" AND "shinji"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/01/28 09:15
S58	100	murata AND S57	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/01/28 09:15
S59	2	JP2010022098A	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2015/01/28 10:40

			IBM_TDB			
S60	38	"6008622"	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:01
S61	1	"6008622" and Norio	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:02
S62	1	"17402302".FMI.D.	US-PGPUB; USPAT; FPRS	OR	ON	2015/01/28; 17:03
S63	336	H04B5/0037	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:30
S64	42	H04B5/0081	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:31
S65	38	H01F41/14	US-PGPUB; USPAT	O R	ON	2015/01/28 17.32
S66	1111	H02J17/00	US-PGPUB; USPAT	OR	ON	2015/01/28; 17:55
S67	32971	H02J17/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/28; 17:55
S68	6341	H01F41/14	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:19
S69	20594	H01Q7/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:27
S70	1439	H04B5/0081	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:29
S71	21809	S70 OR S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:29
S72	394	S71 and ("rectang\$4" OR "square")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/29; 08:38
S73	38	(US-20130249302-\$ or US- 20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US- 20100277004-\$ or US-20120057322-\$	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/05/19; 08:45

		or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$.did. or (US-3153139-\$.did. or (WO-2013120710-\$ or WO-2010133995-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$.did.	JPO; DERWENT			
S74	18	S73 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/19 08:48
S92	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:16
S93	771	S92 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:16
S94	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S95	771	S94 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S96	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S95	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:18
S97	136730	(H04B5/0037.cpc. H04B5/0081.cpc.	US-PGPUB;	OR	ON	2015/08/11

		H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:20
S98	771	S97 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S99	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S98	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:20
S100	136/30	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S101	771	S100 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S102	305	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S101	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S103	72	((coil or winding or antenna or resonator or "receiving element") WITH conductive WITH (layer or pattern)) AND S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:23
S104	934	S100 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:29
S105	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/08/11 17:32

		@ad<"20120719"	IBM_TDB			
S106	934	S105 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S107	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:32
S108	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$).did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$).did. or (US-3153139-\$).did. or (WO-2013120710-\$ or WO-2010133995-\$).did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$).did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/11 17:35
S109	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S110	934	S109 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S111	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:35
S112	0	S111 AND S108	US-PGPUB; USPAT; USOCR;	OR	ON	2015/08/11 17:35

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S113	165	S111 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 17:41
S114	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:09
S115	372	S114 AND ((substrate or base or core or "ferrite magnet layer") AND (space or shape or shaped) AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:09
S116	0	S115 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:10
S117	389	S114 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR		2015/08/11 18:11
S118	0	S117 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:11
S119	136746	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S108) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/11 18:13
S120	27	S119 and S108	US-PGPUB; USPAT;	OR	ON	2015/08/11 18:14

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S121	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$.did. or (US-3153139-\$.did. or (WO-2013120710-\$ or WO-2010133995-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 13:32
S122	136746	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S121) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:32
S123	27	S122 and S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:32
S124	11	S121 NOT S123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12 13:32
S125	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S126	934	S125 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/08/12 13:46

			IBM_TDB			
S127	0	S126 and S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:46
S128	136730	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc.) AND @ad<"20120719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:56
S129	389	S128 AND ((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna\$2 or transponder)) AND ((coil or winding or antenna or resonator or "receiving element") WITH (layer or pattern or PCB or printed))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 13:56
S130	337	((coil\$1 or winding\$1) SAME (power or energy or current) SAME (terminal\$1 or electrode\$1 or lead\$1 or "connecting land")) AND S126	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:11
S131	160	S130 and spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:11
S132	165	S130 and spiral	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:13
S133	160	S132 AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:13
S134	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12 14:34

		AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)				
S135	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$.did. or (US-3153139-\$.did. or (WO-2013120710-\$ or WO-2010133995-\$.did. or (JP-2013157917-\$ or JP-2013138404-\$ or JP-2012235630-\$ or JP-2006042519-\$ or JP-2012010533-\$ or JP-2012191134-\$.did. or (WO-2013065245-\$ or CN-203326731-\$ or JP-2010022098-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 14:36
S136	385	(H04B5/0037.cpc. H04B5/0081.cpc. H01F41/14.cpc. 307/104.ccls. 29/602.1.ccls. H02J7/02.ipc. G06K19/07.ipc. H02J5/00.ipc. B60L11/18.ipc. H02J17/00.ipc. H04B5/00.ipc. S135) AND S134	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/08/12 14:36
S139	5387	((substrate or base or core or "ferrite magnet layer") AND (connector or "connecting unit") AND (terminal or lead or "connecting land") AND (receiv\$3 or transceiv\$3 or antenna or transponder)) AND spiral AND (pattern\$3 or etch\$3 or depos\$3 or deposit\$3 or plat\$3 or PCB or print\$3) AND (coil or winding or resonator or antenna) AND (wire\$1less\$2 or "wire less" or inductive or contact\$1less\$2 or "contact less" or "non contact" or connectionless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/08/12 15:22
S140	38	(US-20130249302-\$ or US-20050046573-\$ or US-20080122570-\$ or US-20080154178-\$ or US-20100277004-\$ or US-20120057322-\$ or US-20080197957-\$ or US-20090058358-\$ or US-20080164840-\$ or US-20120044114-\$ or US-20140167521-\$ or US-20140152245-\$ or US-20130157565-\$ or US-20140346890-\$ or US-20130106198-\$ or US-20140333253-\$ or US-20140306656-\$.did. or (US-6008622-\$ or US-5572180-\$ or US-3936931-\$ or US-5294749-\$ or US-6876287-\$ or US-5175525-\$ or US-8922321-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT	OR	ON	2015/08/12 15:22