Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Dae-Young KIM	Nonprovisional Application Number (if known):	
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Heedong Chae/	Date 2018-04-24
Name (Print/Typed) Heedong Chae	Practitioner Registration Number 69240

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☑ *Total of 1 forms are submitted.

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.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
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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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	7108PAT390
	Application Number	
Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Dae-Young		KIM	

Residence Information (Select One) US Residency ● Non US Residency Active US Military Service

City	Seoul	Country of Residence [i]	KR

Mailing Address of Inventor:

Address 1	446, Bongeunsa-ro Gangnam-gu		
Address 2			
City	Seoul	**State/Province**	
Postal Code	06153	**Country** [i]	KR

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	107876		
Email Address	patent@lucemlaw.com	Add Email	Remove Email
Email Address	iplaw.advocate@gmail.com	Add Email	Remove Email

Application Information:

Title of the Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES		
Attorney Docket Number	7108PAT390	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		**Suggested Figure for Publication (if any)**	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	7108PAT390
	Application Number	
Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	● Customer Number	US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	107876		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	62511280	2017-05-25

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	7108PAT390
	Application Number	
Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES	

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	7108PAT390
	Application Number	
Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (02-18)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	7108PAT390
	Application Number	
Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	SPIGEN KOREA CO., LTD.		
Mailing Address Information For Applicant:			
Address 1	446, Bongeunsa-ro Gangnam-gu		
Address 2			
City	SEOUL	**State/Province**	
Country	KR	Postal Code	06153
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	7108PAT390
	Application Number	
Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name	SPIGEN KOREA CO., LTD.

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	446, Bongeunsa-ro Gangnam-gu		
Address 2			
City	SEOUL	**State/Province**	
Country i	KR	Postal Code	06153
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Heedong Chae/			Date (YYYY-MM-DD)	2018-04-24
First Name	Heedong	Last Name	Chae	Registration Number	69240

Additional Signature may be generated within this form by selecting the Add button. Add

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	7108PAT390
	Application Number	
Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.

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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 CooperationTreaty.

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 Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young KIM
Filer:	Heedong Chae
Attorney Docket Number:	7108PAT390

Filed as Small Entity

Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
REQUEST FOR PRIORITIZED EXAMINATION	2817	1	2000	2000
Pages:				
Claims:				
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	70	70
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**2855**

Electronic Acknowledgement Receipt	
EFS ID:	32721814
Application Number:	15989033
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young KIM
Customer Number:	107876
Filer:	Heedong Chae
Filer Authorized By:	
Attorney Docket Number:	7108PAT390
Receipt Date:	24-MAY-2018
Filing Date:	
Time Stamp:	19:20:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$2855
RAM confirmation Number	052518INTEFSW19212900
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	7108PAT390-OathDec.pdf	158394 6c45cc2806e23e1289142c7dd0105c801a63bb62	no	2
Warnings:					
Information:					
2	Specification	7108PAT390-Specification.pdf	10569357 df997a532f2e9ceea359a778fff7ea3d974926e6	no	28
Warnings:					
Information:					
3	Claims	7108PAT390-Claims.pdf	1893569 36f7e6a0d21803a0a663e5224beeceb5d3206f5b	no	6
Warnings:					
Information:					
4	Drawings-only black and white line drawings	7108PAT390-DWGs.pdf	4317484 c281f8fa3ab5c5aae9d91d18f69b9fbf192b0f47	no	21
Warnings:					
Information:					
5	TrackOne Request	7108PAT390-certofprioritizedexam_track1.pdf	113878 401c9724101c940912b92a2cc09256365bf1d92	no	2
Warnings:					
Information:					
6	Application Data Sheet	7108PAT390-ADS.pdf	1255949 b4fde66a0b6fb380b72df172dab8e5a2315ffce4	no	8
Warnings:					
Information:					

7	Fee Worksheet (SB06)	fee-info.pdf	40009 a5436dc124c02a40450a72da50902fae39fd784f	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	18348640	

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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Title of Invention	MAGNETIC MOUNT FOR ELECTRONIC DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

- [x] The attached application, or
- [ ] United States application or PCT international application number _____

  filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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LEGAL NAME OF INVENTOR

Inventor: Dae-Young Kim Date (Optional): 5/24/2018

Signature: _____

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MAGNETIC MOUNT FOR ELECTRONIC DEVICES

BY

DAE-YOUNG KIM

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority to U.S. provisional patent application No. 62/511,280, filed on May 25, 2017, the disclosures of which are incorporated herein by reference in their entirety.

FIELD OF THE INVENTION

The present invention relates to a case having a metal plate for magnetically mounting the case with an electronic device installed therein to a support having a magnet, and more particularly, to a metal plate having a rounded concave edge.

BACKGROUND OF THE INVENTION

A magnetic mount for an electronic device such as a smart phone, cellular phone, mobile phone, tablet computing device, etc. has been introduced. A mobile phone mount has magnetically attractable members, one of which is installed in a case and the other of which is installed in a support. The support supports the case so that the case stands or the support can be mounted on an air vent of a vehicle. Such magnetic mount for electronic devices is disclosed in

the U.S. Patent Application No. 15,359,465, filed on November 22, 2016, the disclosure of which is incorporated herein by reference in its entirety. The magnetically attractable members are usually a metal plate and a magnet, and the metal plate is attached to an electronic device or a case.

However, such metal plate may impede or prevent wireless charging of a cell phone because the metal plate blocks electromagnetic field for wireless charging. Wireless charging uses an electromagnetic field to transfer energy between two objects through electromagnetic induction, and FIG. 5A illustrates how it works using the transmitter coil and the receiver circuit. Since the metal plate blocks the electromagnetic field, it substantially impedes or prevents wireless charging of an electronic device.

This invention is directed to solve this problem.

SUMMARY OF THE INVENTION

The present invention contrives to solve the disadvantages of the prior art. The present invention provides a metal plate, having a rounded concave edge, for magnetically mounting a case for an electronic device.

The object of the present invention is to provide a case for an electronic device wherein the electronic device

has a receiver coil for wireless charging and the receiver coil is formed in between an inner circle and an outer circle, comprising: a hard protective frame constructed to receive the electronic device therein wherein the hard protective frame has a recess which faces the electronic device; and a metal plate constructed to be received in the recess. The metal plate is constructed to enable magnetic retention or attachment of the case to a support having a magnet. The metal plate has a rounded concave edge, and the metal plate does not overlap with the inner circle. Preferably, the rounded concave edge, the inner circle, and the outer circle are substantially symmetrical with respect to a same line.

Another object of the present invention is to provide a metal plate for magnetically mounting a case for an electronic device wherein the electronic device has a receiver coil for wireless charging and the receiver coil is formed in between an inner circle and an outer circle, the metal plate comprising: a rounded concave edge. The metal plate is constructed to be attachable to the case. The metal plate is constructed to enable magnetic retention or attachment of the case to a support having a magnet, and the metal plate does not overlap with the inner circle. Preferably, the rounded concave edge, the inner circle, and

the outer circle are substantially symmetrical with respect to a same line.

The advantages of the present invention are: (1) the metal plate of the present invention helps a case with an electronic device installed therein magnetically attracted and retained by the support having a magnet, and at the same time, the case having the metal plate does not substantially impede or prevent wireless charging of the electronic device; (2) the metal plate does not substantially impede or prevent wireless charging of the electronic device, and thus a user does not have to remove the metal plate for wireless charging; and (3) the convenience and ease to charge wirelessly electronic device installed in the case having the metal plate for magnetic attachment of the electronic device to a magnetic support, or the electronic device with the installed metal plate, from any number of orientations and positions of the metal plate despite the possibility of interference or disruption of wireless charging by the metal plate.

Although the present invention is briefly summarized, the fuller understanding of the invention can be obtained by the following drawings, detailed description and appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features, aspects and advantages of the present invention will become better understood with reference to the accompanying drawings, wherein:

FIGS. 1A-D are front view, rear view, front perspective view, and rear perspective view of the metal plate according to the present invention;

FIG. 2A is the view before the metal plate is attached to a case;

FIG. 2B is the view where the metal plate is attached to the case;

FIGS. 3A through 3B show alternative shapes of the metal plate;

FIGS. 4A-C show the metal plates of FIGS. 3A and 3B attached to the case;

FIG. 5A shows a schematic drawing to illustrate how wireless charging works using the transmitter coil and receiver circuit (receiver coil);

FIG. 5B shows the receiver circuit or receiver coil;

FIG. 6A shows test results related to wireless charging;

FIG. 6B shows various positions of the metal plate relative to the receiver coil of the electronic device;

FIG. 7 shows a front perspective view of a case according to the invention for magnetic mount;

FIG. 8 shows a rear perspective view of the case according to the invention for magnetic mount;

FIG. 9 shows an exploded view of the case having a soft protective cover, a hard protective frame and a metal plate according to the invention for magnetic mount;

FIG. 10 shows a rear view of the case according to the invention for magnetic mount;

FIG. 11 shows a cross sectional view of FIG. 10;

FIG. 12 shows a schematic perspective view of a magnetic mount illustrating magnetic attraction between the support and the metal plate to support or retain an electronic device according to the invention for magnetic mount;

FIG. 13 shows a perspective view of the magnetic mount having the case and the support such that the support magnetically attracts and retains the case so that the case can stand on a flat surface;

FIG. 14 shows a perspective view of the magnetic mount having the case and the support such that the support magnetically attracts and retains the case and the support is inserted and securely retained by an air vent of a vehicle;

FIG. 15 shows another exploded view of the case having the soft protective cover, the hard protective frame and

the metal plate according to the invention for magnetic mount;

FIG. 16 shows the support, the metal plate shaped to be circular, the metal plate shaped to be rectangular, and the metal plate shaped according to the present invention;

FIG. 17 shows alternative cross sectional view of the case or the hard protective frame; and

FIG. 18 shows a perspective view of the case or the hard protective frame having the cross-sectional view of FIG. 17.

DETAILED DESCRIPTION EMBODIMENTS OF THE INVENTION

Reference will now be made in detail to the preferred embodiments of the present invention, examples of which are illustrated in the accompanying drawings, which form a part of this disclosure. It is to be understood that this invention is not limited to the specific devices, methods, conditions or parameters described and/or shown herein, and that the terminology used herein is for the purpose of describing particular embodiments by way of example only and is not intended to be limiting of the claimed invention.

Also, as used in the specification including the appended claims, the singular forms "a", "an", and "the" include the plural, and reference to a particular numerical

value includes at least that particular value, unless the context clearly dictates otherwise. Ranges may be expressed herein as from "about" or "approximately" one particular value and/or to "about" or "approximately" another particular value. When such a range is expressed, another embodiment includes from the one particular value and/or to the other particular value. Similarly, when values are expressed as approximations, by use of the antecedent "about", it will be understood that the particular value forms another embodiment.

FIGS. 1A-D are front view, rear view, front perspective view, and rear perspective view of the metal plate (30) according to the present invention. FIG. 2A is the view before the metal plate (30) is attached to a case (100), and FIG. 2B is the view where the metal plate (30) is attached to the case (100).

The case (100) for an electronic device (300) wherein the electronic device (300) has a receiver coil (310) for wireless charging and the receiver coil (310) is formed in between an inner boundary (320) and an outer boundary (330), comprises: a hard protective frame (20) constructed to receive the electronic device (300) therein wherein the hard protective frame (20) has a recess (26) which faces the electronic device (300); and a metal plate (30)

constructed to be received in the recess (26) of the hard protective frame (20). The metal plate (30) is constructed to enable magnetic retention or attachment of the case (100) to a support (40) having a magnet (50).

The metal plate (30) is made of ferromagnetic material. The metal plate (30) has a rounded concave edge (35), and the metal plate (30) does not overlap with the inner boundary (320). Here, "overlap" means when the metal plate (30) and the inner boundary (320) are viewed from the front, they do not overlap as illustrated in FIG. 6B.

The rounded concave edge (35) may be circular, elliptical, substantially circular, or substantially elliptical, including the rounded concave edge (35) formed by a smoothly curved line. Both ends of the rounded concave edge (35) may be rounded the other way as shown in FIGS. 3A through 3C.

The case (100) may be made of a hard protective frame (20) alone, a soft protective cover (10) alone, or combination thereof. In any structure, the metal plate (30) is attached to the case (100). Preferably, the soft protective cover (10) is made of thermoplastic polyurethane and the hard protective frame (20) is made of polycarbonate.

Preferably, the inner boundary (320) and the outer boundary (330) are circular as in FIG. 5B. Alternatively,

the inner boundary (320) and the outer boundary (330) may be rectangular with rounded corners as in FIG. 5B.

As illustrated in FIG. 6B, when the metal plate (30) is attached to the case (100) and the electronic device (300) is installed in the case (100), the rounded concave edge (35), the inner boundary (320), and the outer boundary (330) are substantially symmetrical with respect to the same line. The inner boundary (320) and the outer boundary (330) are generally concentric, and the rounded concave edge (35) may or may not be concentric as well.

FIG. 6B shows various relative locations between the metal plate (35) and the boundaries (320, 330). The rounded concave edge (35) may be placed in between the inner boundary (320) and the outer boundary (330). Alternatively, the rounded concave edge (35) may overlap with the outer boundary (330). Or, the rounded concave edge (35) may be placed outside the outer boundary (330).

As in FIGS. 1A-D, the metal plate (30) may be substantially rectangular with one side (34) having the rounded concave edge (35). In addition, the metal plate (30) may have rounded corners, preferably, all four corners are rounded. In FIG. 1A, sides (31, 32) are substantially parallel to each other and sides (33, 34) are substantially parallel to each other as well.

In the alternative embodiment as in FIG. 3B, the metal plate (30) may be substantially trapezoidal wherein the rounded concave edge (35) is formed on a shorter side (34) of two parallel sides (33, 34). In addition, the metal plate (30) may have rounded corners, preferably, all four corners are rounded.

FIGS. 3A, 3B and 3C show alternative designs of the metal plate (30), and FIGS. 4A, 4B and 4C show them attached to the case (100).

The metal plate (30) is attached to the hard protective frame (20) by an adhesive (37). Preferably, the adhesive (37) is a double-sided adhesive.

As in FIG. 1B, the metal plate (30) may have an adhesive layer covered with transparent film. A user may remove the transparent film and attach the adhesive layer to the case (100).

The hard protective frame (20) may further comprise a surrounding recess (28) which surrounds the recess (26) and gradually recesses from a flat surface (23) of the hard protective frame (20) to the recess (26).

The case, having the hard protective frame (20), may further comprises a soft protective cover (10) which comprises a back panel (12) to cover a back portion of the electronic device (300), and a side wall (14) extending

from a top surface (11) of the back panel (12) along edges (13) of the back panel (12).

In the alternative embodiment, a metal plate (30) for magnetically mounting an electronic device (300) or a case (100) with an electronic device (300) installed therein wherein the electronic device (300) has a receiver coil (310) for wireless charging and the receiver coil (310) is formed in between an inner boundary (320) and an outer boundary (330), the metal plate (30) comprising: a rounded concave edge (35).

The metal plate (30) is constructed to be attachable to the electronic device (300) or the case (100). The metal plate (30) is constructed to enable magnetic retention or attachment of the electronic device (300) to a support (40) having a magnet (50), and the metal plate (30) attached to the electronic device (300) or the case (100) is constructed not to substantially block magnetic waves passing through the area formed by the inner boundary.

The metal plate (30) may be directly attached to the electronic device (300) or to the case (100) for magnetically mounting the electronic device (300) to a support (40). Alternatively, the metal plate (30) may be attached to the electronic device (300) which is then installed in the case (100).

As illustrated in FIG. 5B, the inner boundary (320) and the outer boundary (330) are substantially circular, or substantially rectangular with rounded corners.

The rounded concave edge (35) substantially symmetrically aligns to respective orthographic parallel projections of the inner boundary (320) and the outer boundary (330) onto a projection plane of the metal plate (30).

The rounded concave edge (35) may be placed in between the inner boundary (320) and the outer boundary (330). Alternatively, the rounded concave edge (35) at least partially overlaps with an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30). Or, the rounded concave edge (35) may be placed outside an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30).

The metal plate (30) is substantially rectangular with a first side (34) having the rounded concave edge (35), and the metal plate (30) has rounded corners. The metal plate (30) has third and fourth sides (31, 32) that are substantially parallel to each other and has a second side (33) that is substantially parallel to the first side (34). Alternatively, the metal plate (30) may be substantially

trapezoidal, wherein the rounded concave edge (35) is formed on a shorter side (34) of two parallel sides (33, 34), and wherein the metal plate (30) has rounded corners.

The metal plate (30) may further comprise an adhesive layer (37). The adhesive may be glue, bond, paste, tape, double-sided adhesive, or the like known in the art, but preferably, the adhesive is a double-sided adhesive. The double-sided adhesive may be a double-sided adhesive tape or sheet where one side of the adhesive tape can affix onto the metal plate (30) and the other side can be used to affix onto the case or electronic device thereby coupling the metal plate (30) with case or electronic device. Typically, the side of the double-sided adhesive tape used to affix the metal plate (30) onto the case or electronic device is initially covered by a release tape that is removable by the user when ready to affix or attach the metal plate (30) to either the electronic device (300) or the case (100) for magnetically mounting the electronic device (300) to a support (40). The metal plate (30) may be attached to the recess of the case, or the metal plate (30) may be attached to outer side of the case or directly to the electronic device.

Table 1 shows data from the wireless charging of an electronic device having a receiver circuit already

installed therein, as also shown in FIG. 6A. The current driven by the wireless charging (transmitter coil as shown in FIG. 5A) is reported by the electronic device. The first column of table 1 contains data on the wireless charging of an electronic device having a receiver circuit installed therein without a metal plate (30) and without being attached to a case. The current shown by the electronic device during wireless charging ranged from 170 mA to 250 mA with an average charging current of 210 mA. The second and third columns contain data on the wireless charging of an electronic device having a receiver circuit installed therein with the electronic device being reversibly attached to cases having a metal plate (30) affixed in the manner as shown in FIGS. 4B and 4C respectively. For the case of FIG. 4B with the affixed metal plate (30), the charging current as displayed on the electronic device is 90 mA to 230 mA with an average charging current of 190 mA. For the case of FIG. 4C with the affixed metal plate (30), the charging current as displayed on the electronic device is 40 mA to 180 mA with an average charging current of 80 mA. Thus, even with the case having the metal plate (30), the wireless charging for the electronic device affixed therein is still very effective.

Table 1. Wireless Charging

	No Case	FIG. 4B	FIG. 4C
Charging Current Range	170-250 mA	90-230 mA	40-180 mA
Avg Charging Current	210 mA	190 mA	80 mA

The metal plate (30) of the present invention helps a case with an electronic device installed therein that is magnetically attracted and retained by the support having a magnet, and at the same time, the case having the metal plate (30) does not substantially impede or prevent wireless charging of the electronic device. In addition, the metal plate does not substantially impede or prevent wireless charging of the electronic device, and thus a user does not have to remove the metal plate for wireless charging.

Below is the description of the invention disclosed in the U.S. Patent Application No. 15,359,465, filed on November 22, 2016, the disclosure of which is incorporated herein by reference in its entirety.

FIGS. 7 and 8 respectively show front and rear perspective views of a case (100) according to the present invention. FIG. 9 shows an exploded view of the case (100) having a soft protective cover (10), a hard protective frame (20) and a metal plate (30).

A magnetic mount (200) of the present invention for an electronic device (300) comprises: a case (100) and a support (40). The case (100) comprises a soft protective cover (10) which comprises a back panel (12) to cover a back portion of the electronic device (300), and a side wall (14) extending from a top surface (11) of the back panel (12) along edges (13) of the back panel (12); a hard protective frame (20) constructed to removably mount over the soft protective cover (10); and a metal plate (30) placed between the soft protective cover (10) and the hard protective frame (20). The support (40) has a magnet (50). In addition, the metal plate (30) and magnet (50) are magnetically attractable to each other for magnetically attracting and retaining the case (100) to the support (40).

FIG. 10 shows a rear view of the case (100) and FIG. 11 shows a cross sectional view of FIG. 10.

The soft protective cover (10) may have a recess (not shown) formed on the back panel (12) to receive the metal plate(30). In the alternative as shown in FIG. 11, the hard protective frame (20) may have a recess to receive the metal plate (30). Or, the soft protective cover (10) may have a first recess formed on the back panel (12) and the hard protective frame (20) may have a second recess such

that the first and second recesses form a housing to receive the metal plate (30) therein.

FIG. 12 shows a schematic perspective view of the magnetic mount (200) illustrating magnetic attraction between the support (40) and the metal plate (30) to support or retain the electronic device (300).

The support (40) comprises a body (42) and a plurality of legs (46), wherein the body (42) is substantially in a form of a geometric prism or cylinder which has two bases (43, 44) facing each other wherein the legs (46) are attached to one (44) of the two bases (43, 44), wherein the magnet (50) is placed in the body (42). One base (43) of the support (40) has a flat surface to be magnetically attached to the case (100).

The body (42) is substantially in a shape of a prism, a right prism, a uniform prism, or cylinder. Preferably, the body is substantially cylindrical or substantially in a shape of a right prism having two bases of regular convex and rectangular sides, for example, regular hexagon right prism, regular octagon right prism, or the like.

When the case (100) is magnetically retained by the support (40), the base (43) of the body (42) and an outer surface (22) of the hard protective frame (20) create enough friction to prevent the case (100) from sliding on

the base (43). To create such friction, the surface of the base (43) may be rough.

FIG. 13 shows a perspective view of the magnetic mount (200) such that the support (40) magnetically attracts and retains the case (100) so that the case (100) can stand on a flat surface. FIG. 14 shows a perspective view of the magnetic mount (200) such that the support (40) magnetically attracts and retains the case (100) and the support (40) is inserted into and securely retained by an air vent of a vehicle which is comprised of parallel vanes.

The plurality of legs (46) of the support (40) are configured to support the case (100) magnetically retained by the support (40) so that the case (100) stands on a flat surface. When the case (100) is magnetically retained by the support (40), the case (100) can stand on a flat surface and the angle between the case (100) and the flat surface can be adjusted by adjusting the location of the support (40) with respect to the case (100). The adjusted location can be maintained. The friction between the case (100) and the support (40) should be weak enough to allow such location adjustment, but strong enough to prevent slipping of the case (100) away from the support (40).

In addition, the plurality of legs (46) of the support (40) is constructed to be received and retained by an air

vent of a vehicle. FIG. 14 shows the support (40) inserted into and retained by the air vent of a vehicle. By the magnetic attraction between the support (40) and the case (100), the case (100) can be mounted onto the air vent of a vehicle. The support (40) is detachably fixed to the air vent and the case (100) can rotate or slide a little with respect to the support (40). Because of friction between the support (40) and the case (100), adjusted rotation or sliding of the case (100) can be maintained so that a user can adjust the angle of the case (100) suitable and convenient for him.

Preferably, the metal plate (30) is made of ferromagnetic material and the magnet (50) produces magnetic flux. More specifically, the metal plate (30) may be made of steel, stainless steel, or iron. As in FIGS. 15 and 16, the metal plate (30) may be made of ferromagnetic metal plate.

The metal plate (30) is close enough to an outer surface (22) of the hard protective frame (20) and the magnet produces enough magnetic flux so that the support (40) attracts and retains the case (100) with the electronic device (300) installed therein in place.

Additionally, the support (40) and the case (100) create enough friction to prevent the case (100) from

sliding on or slipping from the support (40) when the case (100) is magnetically retained by the support (40).

Alternatively, the magnet (50) may be made of ferromagnetic material and the metal plate (30) may be made of a magnet which produces magnetic flux.

The body (42) of the support (40) may be geometrically a prism or cylinder. More preferably, the body (42) is substantially cylindrical as FIG. 12 or FIG. 13. Cylindrical shape is preferable in rotating the support (40) or case (100) with respect to each other. The plurality of legs (46) is attached about a center of the base (44) and preferably, there are four legs (46). Four legs (46) may form a square layout so that they can be easily inserted into an air vent of a vehicle.

The metal plate (30) may be a circular metal plate or a rectangular metal plate, as shown in FIGS. 15 and 16, or a substantially rectangular or substantially trapezoidal plate as shown in FIGS. 1 and 3.

The soft protective cover (10) is made of soft material and the hard protective frame (20) is made of hard material. Preferably, the soft protective cover (10) is made of thermoplastic polyurethane and the hard protective frame (20) is made of polycarbonate.

As shown in FIG. 11, the soft protective cover (10) comprises a longitudinal recess (15) and the hard protective frame (20) comprises a longitudinal protrusion (25) such that the longitudinal recess (15) of the soft protective cover (10) receives the longitudinal protrusion (25) of the hard protective frame (20) therein for secure coupling between the soft protective cover (10) and the hard protective frame (20).

The soft protective cover (10) is sufficiently flexible to accept insertion of the electronic device (300) therein and sufficiently rigid to securely retain the inserted electronic device (300).

The magnetic mount (200) may further comprise a double-sided adhesive for attaching the metal plate (30) either to the soft protective cover (10) or to the hard protective frame (20). The double-sided adhesive may be a double-sided adhesive tape or sheet.

If the soft protective cover (10) has a recess (not shown) formed on the back panel (12) to receive the metal plate (30), the double-sided adhesive may be located in the recess to attach the metal plate (30) to the soft protective cover (10). The double-sided adhesive may be a double-sided adhesive tape or sheet.

If the hard protective frame (20) has a recess to receive the metal plate (30), the double-sided adhesive may be located in the recess to attach the metal plate (30) to the hard protective frame (20).

Alternatively, the magnetic mount (200) may further comprise two double-sided adhesives one of which is for attaching the metal plate (30) to the soft protective cover (10) and the other of which is for attaching the first metal plate (30) to the hard protective frame (20).

In case that the soft protective cover (10) has a first recess formed on the back panel (12) and the hard protective frame (20) has a second recess, and the first and second recesses form a housing to receive the metal plate (30) therein, two double-sided adhesives may be located in both of the recesses for attaching the metal plate (30) to the soft protective cover (10) and the hard protective frame (20).

The metal plate (30) may be attached either to the soft protective cover (10) or to the hard protective frame (20) by an adhesive such as glue, bond, paste, tape, double-sided adhesive, etc. The double-sided adhesive may be a double-sided adhesive tape or sheet.

In the alternative embodiment, a magnetic mount (200) for an electronic device (300) may comprise: a case (100)

for receiving an electronic device therein; a metal plate (30) attached to a back of the case (100) by an adhesive; and a support (40) having a magnet (50). The metal plate (30) and magnet (50) are magnetically attractable to each other for magnetically attracting and retaining the case (100) to the support (40). The adhesive may be glue, bond, paste, tape, double-sided adhesive, etc. The metal plate (30) may be circular, rectangular, substantially circular, substantially rectangular or substantially trapezoidal.

The metal plate (30) may be made of ferromagnetic material and the magnet (50) may be made of a magnet which produces magnetic flux. More specifically, the metal plate (30) may be made of steel, stainless steel, or iron. Preferably, the metal plate (30) may be made of ferromagnetic metal plate.

Alternatively, the magnet (50) may be made of ferromagnetic material and the metal plate (30) may be made of a magnet which produces magnetic flux.

Still in the alternative embodiment of the present invention, a magnetic mount (200) for an electronic device (300) comprises: a metal plate (30) to be attachable to a back of the electronic device (300) by an adhesive; and a support (40) having a magnet (50). The metal plate (30) and the magnet (50) are magnetically attractable to each other

for magnetically attracting and retaining the case (100) to the support (40). In addition, one side of the adhesive is attached to the metal plate (30).

The metal plate (30) may be made of ferromagnetic material and the magnet (50) may be made of a magnet which produces magnetic flux. The magnet produces enough magnetic flux so that the support (40) attracts and retains the electronic device (300). The support (40) and the metal plate (30) create enough friction to prevent the metal plate (30) from sliding on the support (40) when the electronic device (300) is magnetically retained by the support (40).

Another side of the adhesive may be covered with a release tape so that after removing the release tape, the another side of the adhesive can be attached to the back of the case.

The adhesive may be glue, bond, paste, tape, double-sided adhesive, or the like known in the art, but preferably, the adhesive is a double-sided adhesive. The double-sided adhesive may be a double-sided adhesive tape or sheet.

FIGS. 11 and 17 show cross-sectional views of the present invention. The embodiment of FIG. 11 is explained

above and the embodiment of FIG. 17 further comprises a surrounding recess (28).

In this embodiment, the hard protective frame (20) has a recess (26) to receive the metal plate (30) therein, and the hard protective frame (20) may further comprise a surrounding recess (28) which surrounds the recess (26) and slopes away from a flat surface (23) of the hard protective frame (20) to the recess (26) creating a cavity.

In the alternative, the case (100) may comprise a recess (26), formed on its back (23) facing the electronic device (300), for receiving the metal plate (30) therein, and the case (100) may further comprise a surrounding recess (28) which surrounds the recess (26) and slopes away from a flat surface (23) of the case (100) to the recess (26) thereby creating a cavity. FIG. 18 shows a drawing of the case (100) according to this embodiment.

In FIG. 18, the recess (26) is formed on the inner surface (23) of the case (100) and the surrounding recess (28) is formed along the outer boundary of the recess (26) to surround the recess (26). The surrounding recess (28) may gradually recess from a flat surface (23) of the case (100) (or the hard protective frame (20)) to the recess (26). As shown in FIG. 17, the surrounding recess (28) gradually recesses and becomes flat toward the recess (26).

The metal plate (30) may be flush with the recess (26) or slightly protrude out of the recess (26). In other words, the height of the metal plate (30) may be about or slightly greater than the depth of the recess (26). However, the metal plate (30) does not protrude beyond the flat surface (23) of the case (100) (or the hard protective frame (20)).

Accordingly, the surrounding recess (28) forms space between the metal plate (30) and the electronic device (300) in order to prevent scratches or damages by the metal plate (30) to the electronic device (300). In addition, without the surrounding recess (28), a boundary line of the recess (26) may be formed on the outer surface (22) of the case (100) or the hard protective frame (30) which is visible from outside. The surrounding recess (28) prevents such boundary line of the recess from being formed on the outer surface (22) and makes the part of the case (100) or the hard protective frame (20) in contact with the metal plate (30) less vulnerable to damage.

While the invention has been shown and described with reference to different embodiments thereof, it will be appreciated by those skilled in the art that variations in form, detail, compositions and operation may be made without departing from the spirit and scope of the invention as defined by the accompanying claims.

ABSTRACT

A case for an electronic device wherein the electronic device has a receiver coil for wireless charging and the receiver coil is formed in between an inner circle and an outer circle, includes: a hard protective frame constructed to receive the electronic device therein wherein the hard protective frame has a recess which faces the electronic device; and a metal plate constructed to be received in the recess. The metal plate is constructed to enable magnetic retention or attachment of the case to a support having a magnet. The metal plate has a rounded concave edge, and the metal plate does not overlap with the inner circle. Preferably, the rounded concave edge, the inner circle, and the outer circle are substantially symmetrical with respect to a same line.

MAGNETIC MOUNT FOR ELECTRONIC DEVICES

What is claimed is:

1. A case (100) for an electronic device (300) wherein the electronic device (300) has a receiver coil (310) for wireless charging and the receiver coil (310) is formed in between an inner boundary (320) and an outer boundary (330), the case comprising:

a hard protective frame (20) constructed to receive the electronic device (300) therein wherein the hard protective frame (20) has a recess (26) which faces the electronic device (300); and

a metal plate (30) constructed to be received in the recess (26) of the hard protective frame (20),

wherein the metal plate (30) is constructed to enable magnetic retention or attachment of the case (100) to a support (40) having a magnet (50),

wherein the metal plate (30) has a rounded concave edge (35),

wherein the metal plate (30) received in the recess (26) is constructed not to substantially block magnetic waves passing through the area formed by the inner boundary.

2. The case of claim 1, wherein the metal plate (30) does not overlap with an orthographic parallel projection of the

area formed by the inner boundary (320) onto a projection plane of the metal plate (30).

3. The case of claim 1, wherein the inner boundary (320) and the outer boundary (330) are substantially circular.

4. The case of claim 1, wherein the rounded concave edge (35) substantially symmetrically aligns to respective orthographic parallel projections of the inner boundary (320) and the outer boundary (330) onto a projection plane of the metal plate (30).

5. The case of claim 4, wherein the rounded concave edge (35) at least partially overlaps with an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30).

6. The case of claim 4, wherein the rounded concave edge (35) is placed outside an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30).

7. The case of claim 1, wherein the metal plate (30) is substantially rectangular with a first side (34) having the

rounded concave edge (35),

wherein the metal plate (30) has third and fourth sides (31, 32) that are substantially parallel to each other and has a second side (33) that is substantially parallel to the first side (34).

8. The case of claim 7, wherein the metal plate (30) has rounded corners.

9. The case of claim 1, wherein the metal plate (30) is substantially trapezoidal wherein the rounded concave edge (35) is formed on a shorter side (34) of two parallel sides (33, 34), and wherein the metal plate (30) has rounded corners.

10. The case of claim 1, wherein the metal plate (30) is attached to the hard protective frame (20) by an adhesive (37).

11. The case of claim 1, wherein the hard protective frame (20) further comprises a surrounding recess (28) which surrounds the recess (26) and slopes away from a flat surface (23) of the hard protective frame (20) towards the recess (26) forming a cavity.

12. The case of claim 1, further comprising a soft protective cover (10) which comprises a back panel (12) to cover a back portion of the electronic device (300), and a side wall (14) extending from a top surface (11) of the back panel (12) along edges (13) of the back panel (12), wherein the hard protective frame (20) is constructed to removably mount over the soft protective cover (10).

13. A metal plate (30) for magnetically mounting an electronic device (300) or a case (100) with an electronic device (300) installed therein wherein the electronic device (300) has a receiver coil (310) for wireless charging and the receiver coil (310) is formed in between an inner boundary (320) and an outer boundary (330), the metal plate (30) comprising:

a rounded concave edge (35),

wherein the metal plate (30) is constructed to be attachable to the electronic device (300) or the case (100),

wherein the metal plate (30) is constructed to enable magnetic retention or attachment of the electronic device (300) to a support (40) having a magnet (50),

wherein the metal plate (30) attached to the electronic device (300) or the case (100) is constructed not to

substantially block magnetic waves passing through the area formed by the inner boundary.

14. The case of claim 13, wherein the metal plate (30) does not overlap with an orthographic parallel projection of the area formed by the inner boundary (320) onto a projection plane of the metal plate (30).

15. The case of claim 13, wherein the inner boundary (320) and the outer boundary (330) are substantially circular.

16. The case of claim 13, wherein the rounded concave edge (35), the inner boundary (320), and the outer boundary (330) are substantially symmetrical with respect to a same line.

17. The case of claim 16, wherein the rounded concave edge (35) at least partially overlaps with an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30).

18. The case of claim 16, wherein the rounded concave edge (35) is placed outside an orthographic parallel projection of the outer boundary (330) onto a projection plane of the

metal plate (30).

19. The case of claim 13, wherein the metal plate (30) is substantially rectangular with a first side (34) having the rounded concave edge (35), and the metal plate (30) has rounded corners,

wherein the metal plate (30) has third and fourth sides (31, 32) that are substantially parallel to each other and has a second side (33) that is substantially parallel to the first side (34).

20. The case of claim 13, wherein the metal plate (30) is substantially trapezoidal, wherein the rounded concave edge (35) is formed on a shorter side (34) of two parallel sides (33, 34), and wherein the metal plate (30) has rounded corners.

FIG. 1A

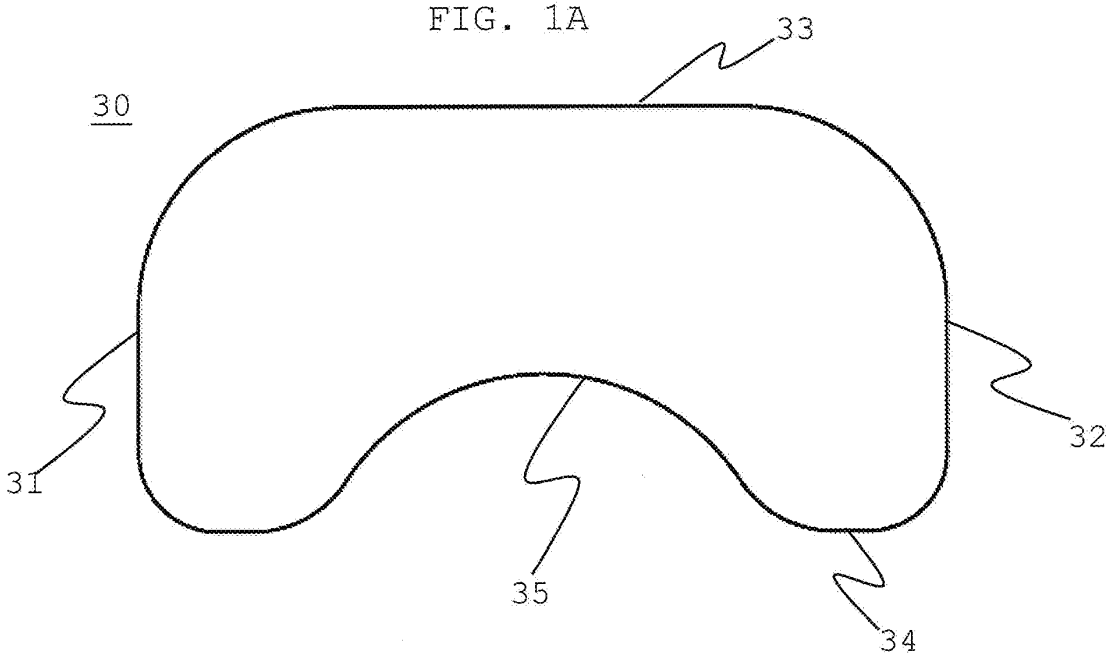


FIG. 1B

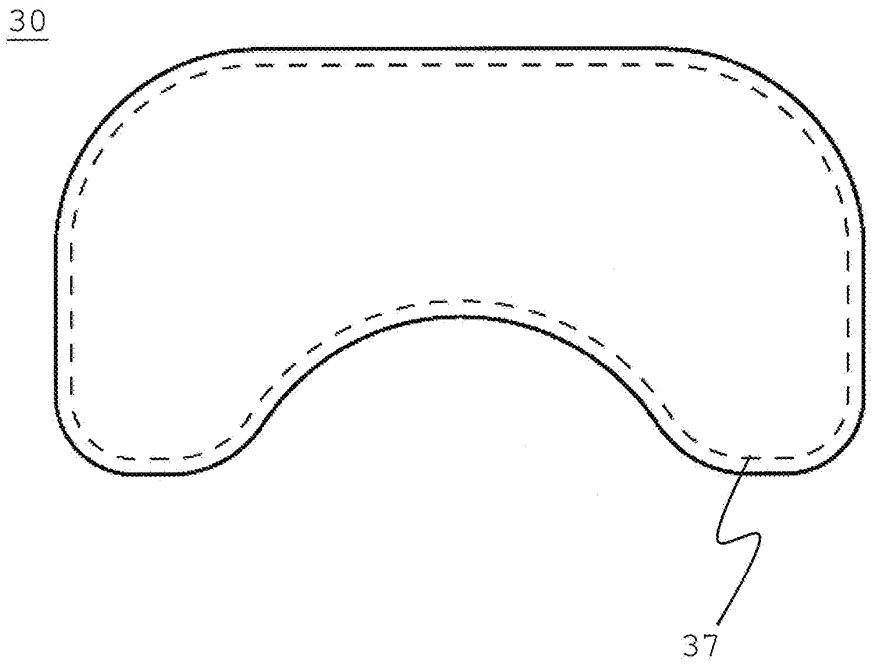


FIG. 1C

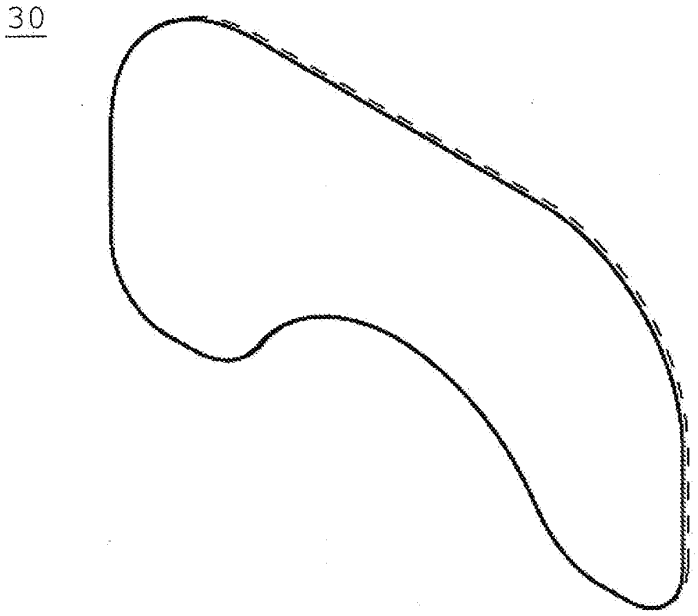


FIG. 1D

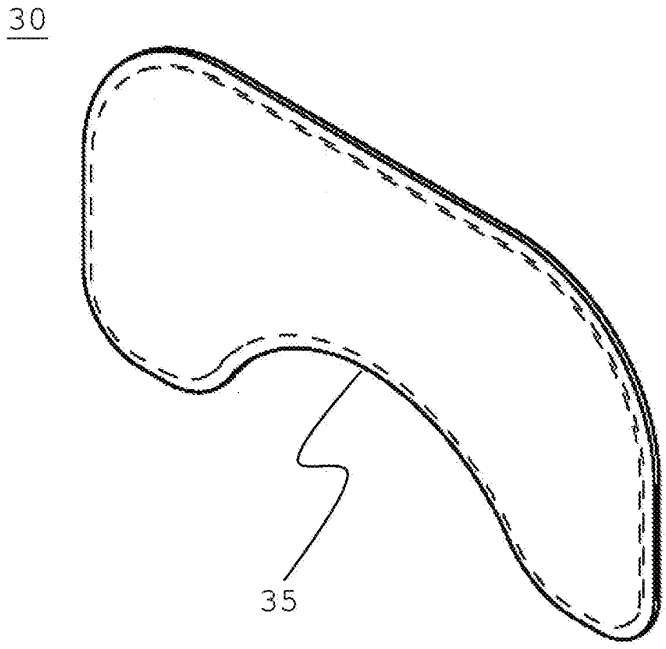


FIG. 2A

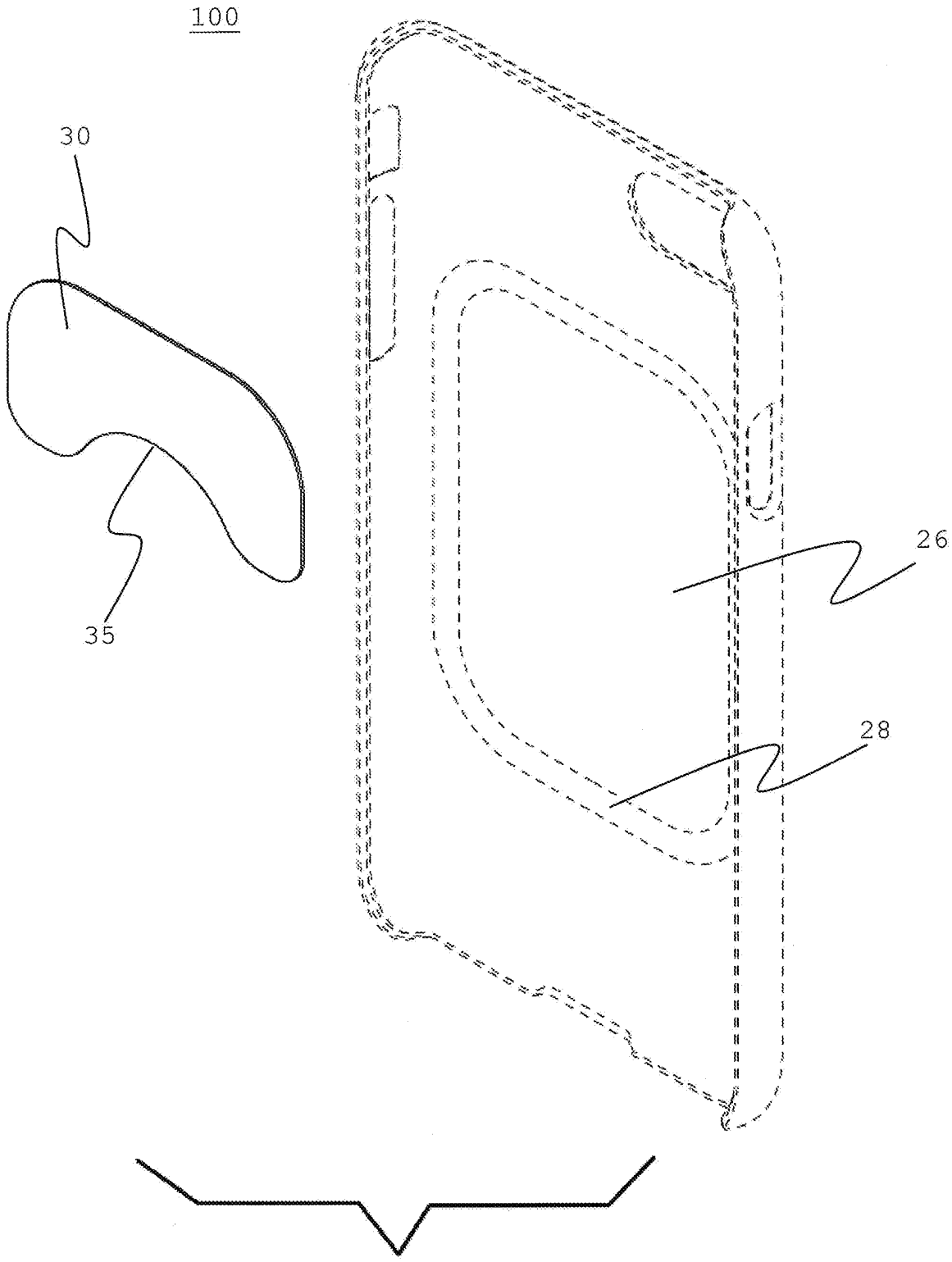
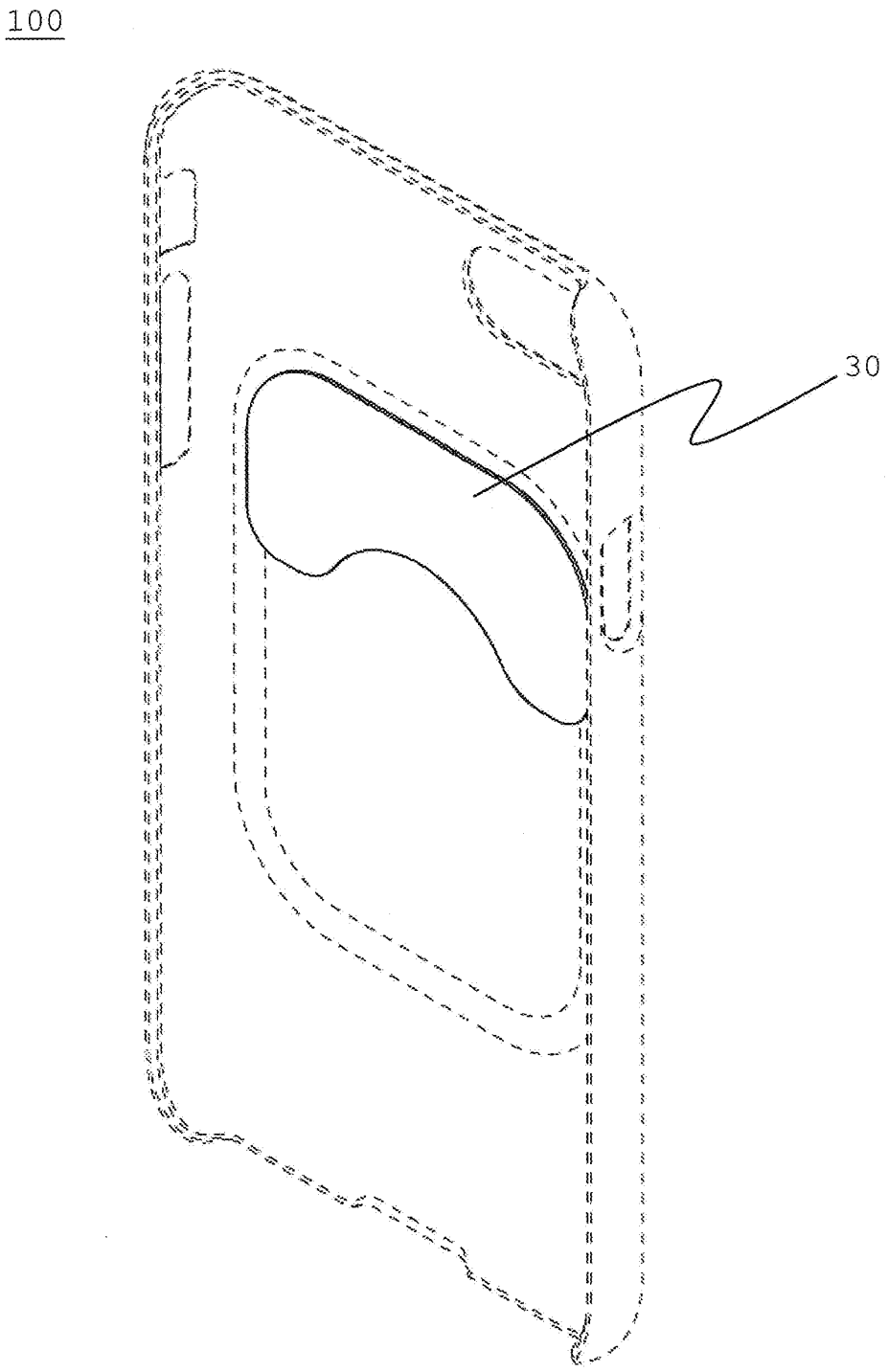


FIG. 2B



A

30

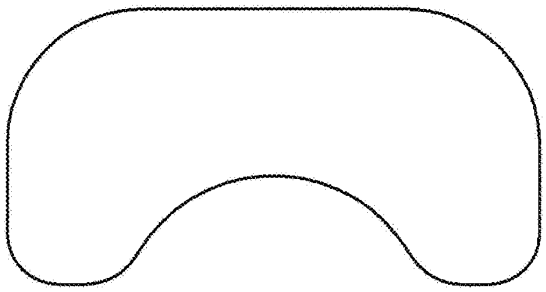


FIG. 3A

B

30

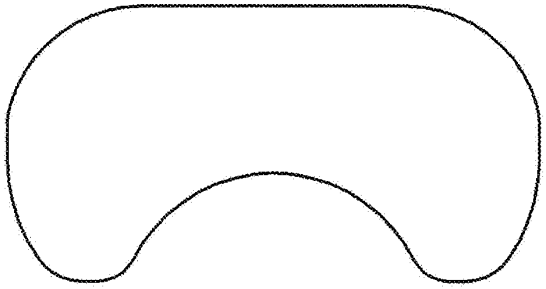


FIG. 3B

C

30

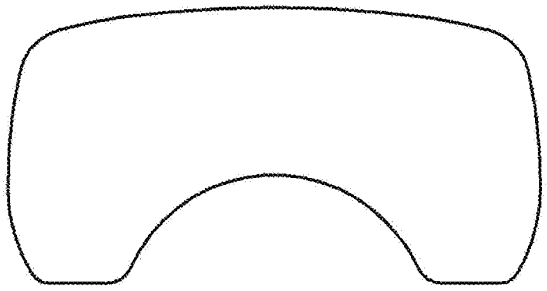


FIG. 3C

FIG. 4A

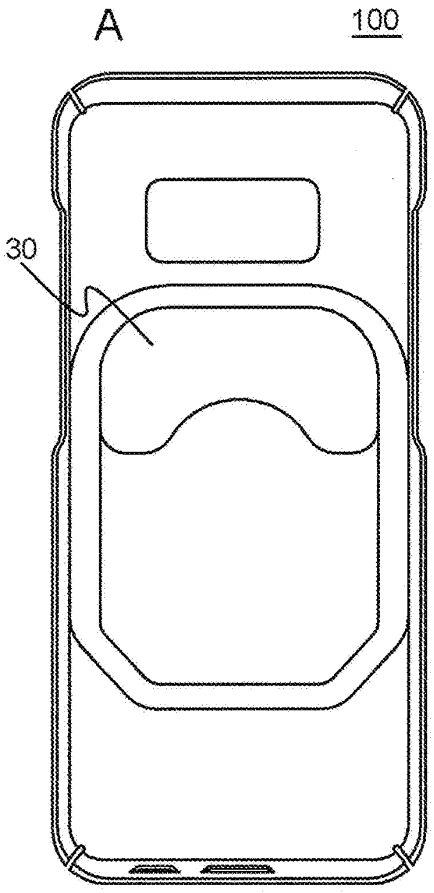


FIG. 4B

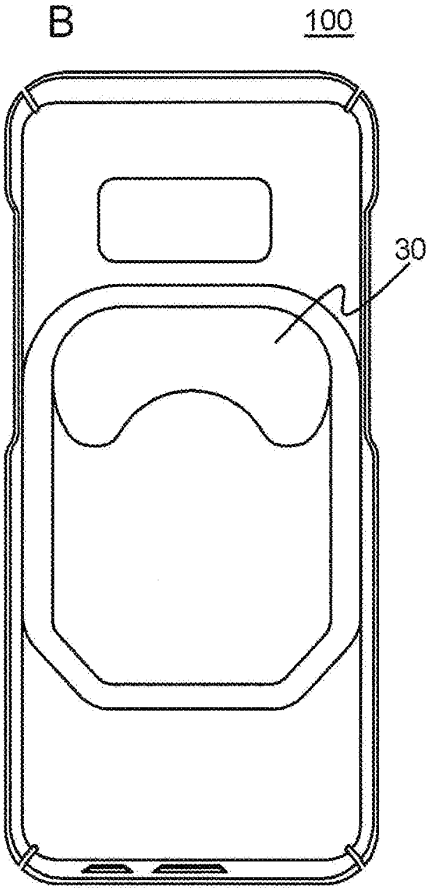


FIG. 4C

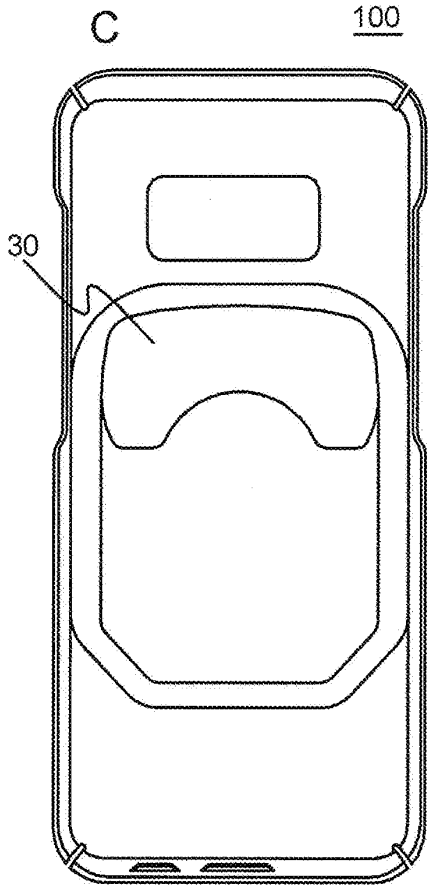


FIG. 5A

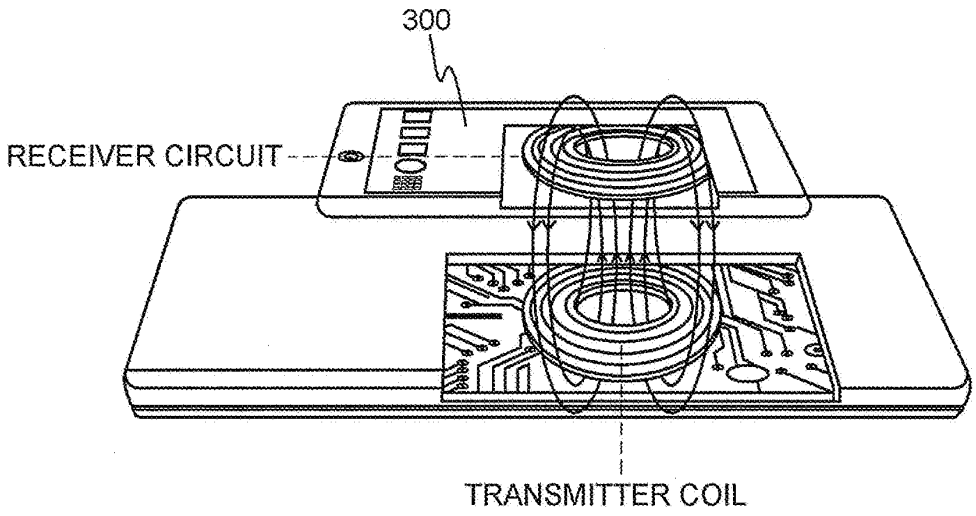


FIG. 5B

Receiver circuit or receiver coil 310

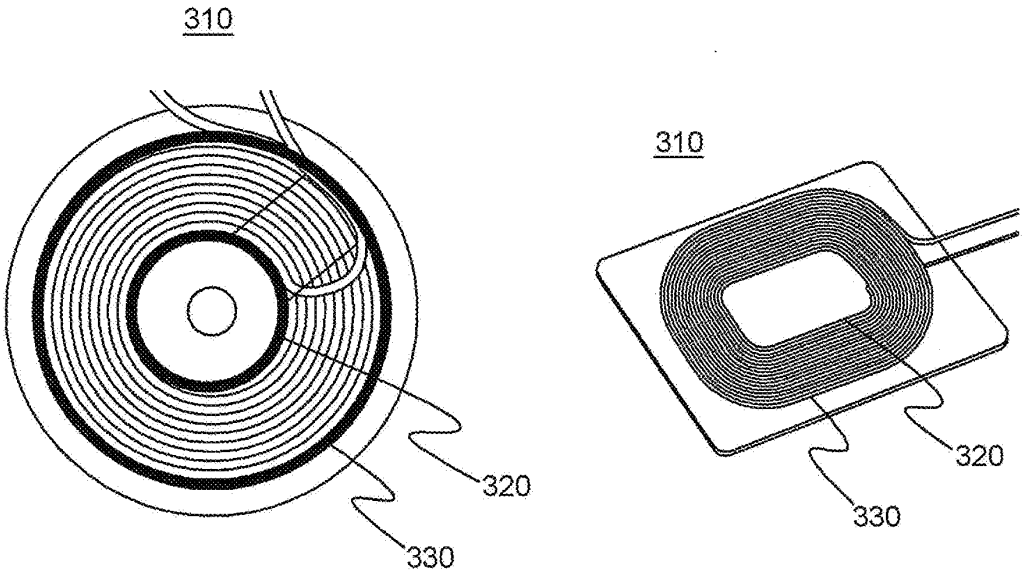
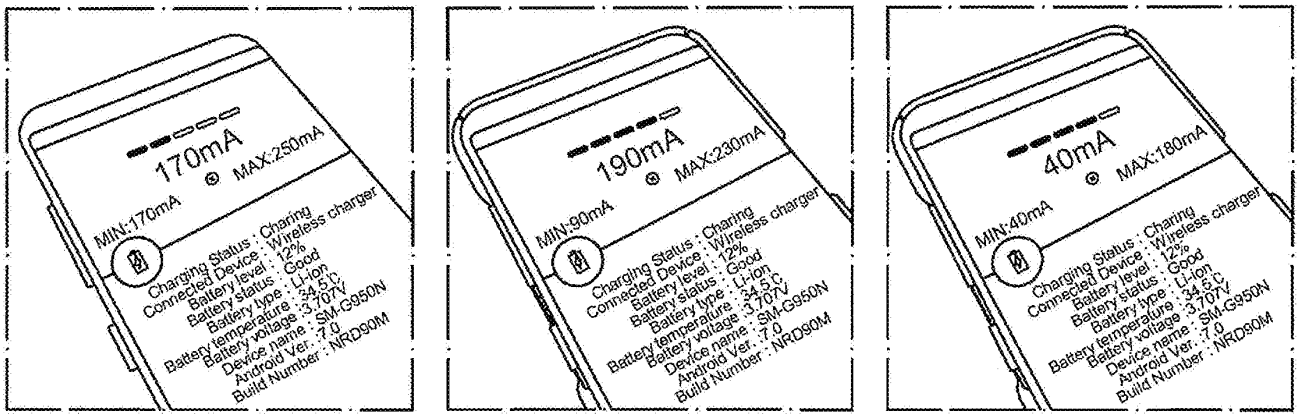


FIG. 6A



No case

170~250mA
Avg. 210mA

Using the case of FIG. 4B

90~230mA
Avg. 190mA

Using the case of FIG. 4C

40~180mA
Avg. 80mA

FIG. 6B

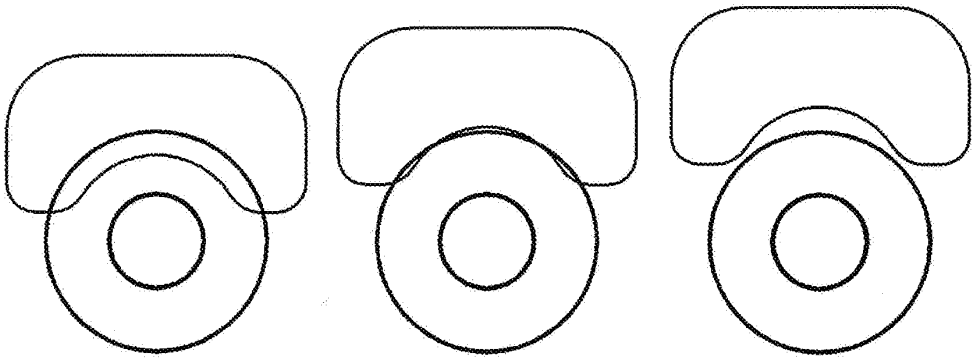


FIG. 7

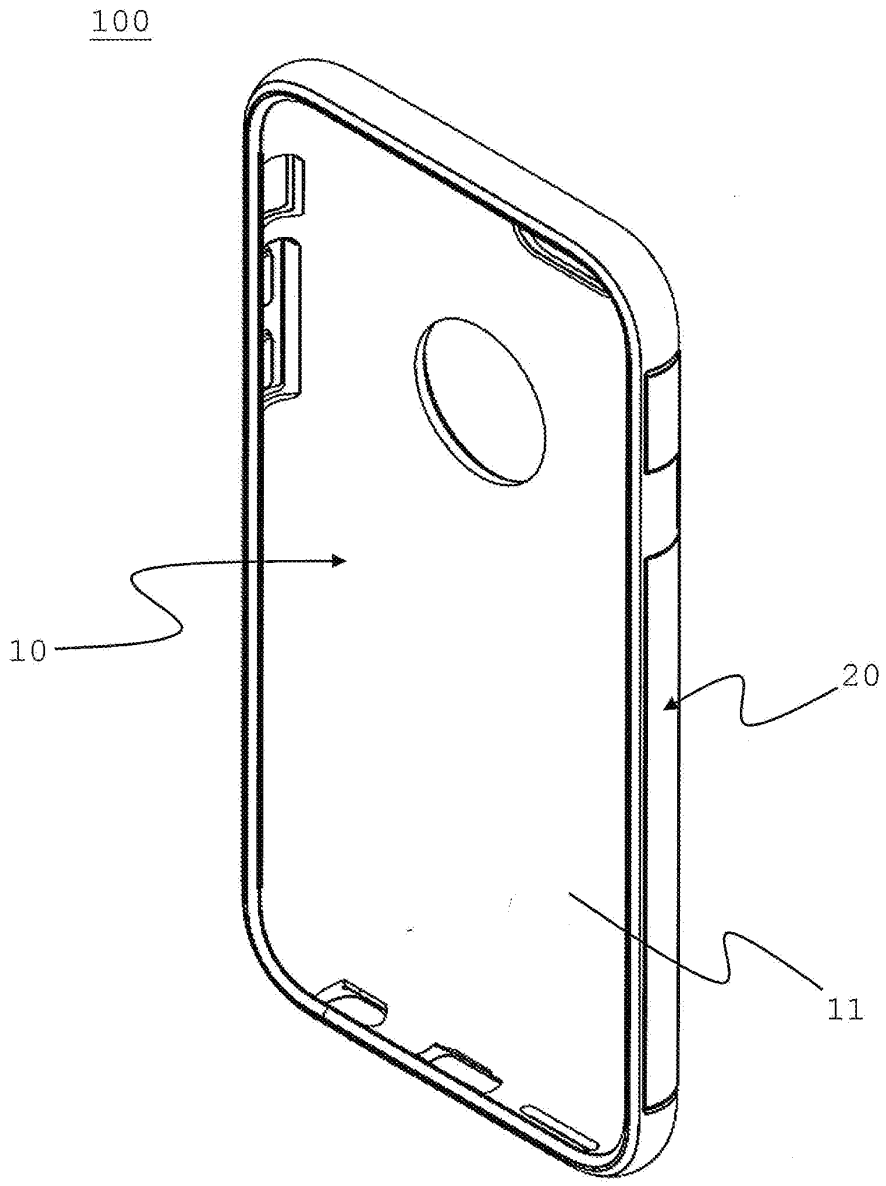


FIG. 8

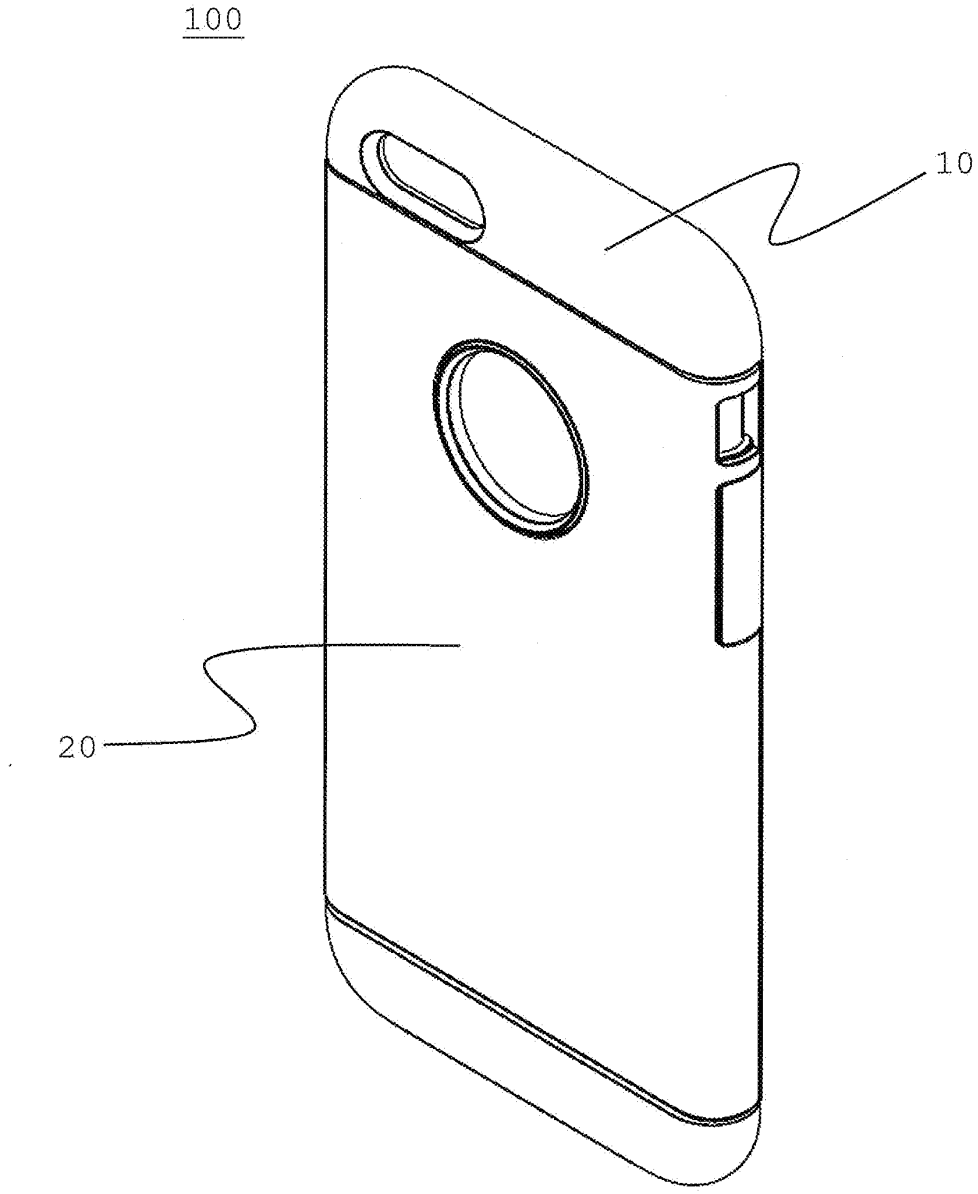


FIG. 9

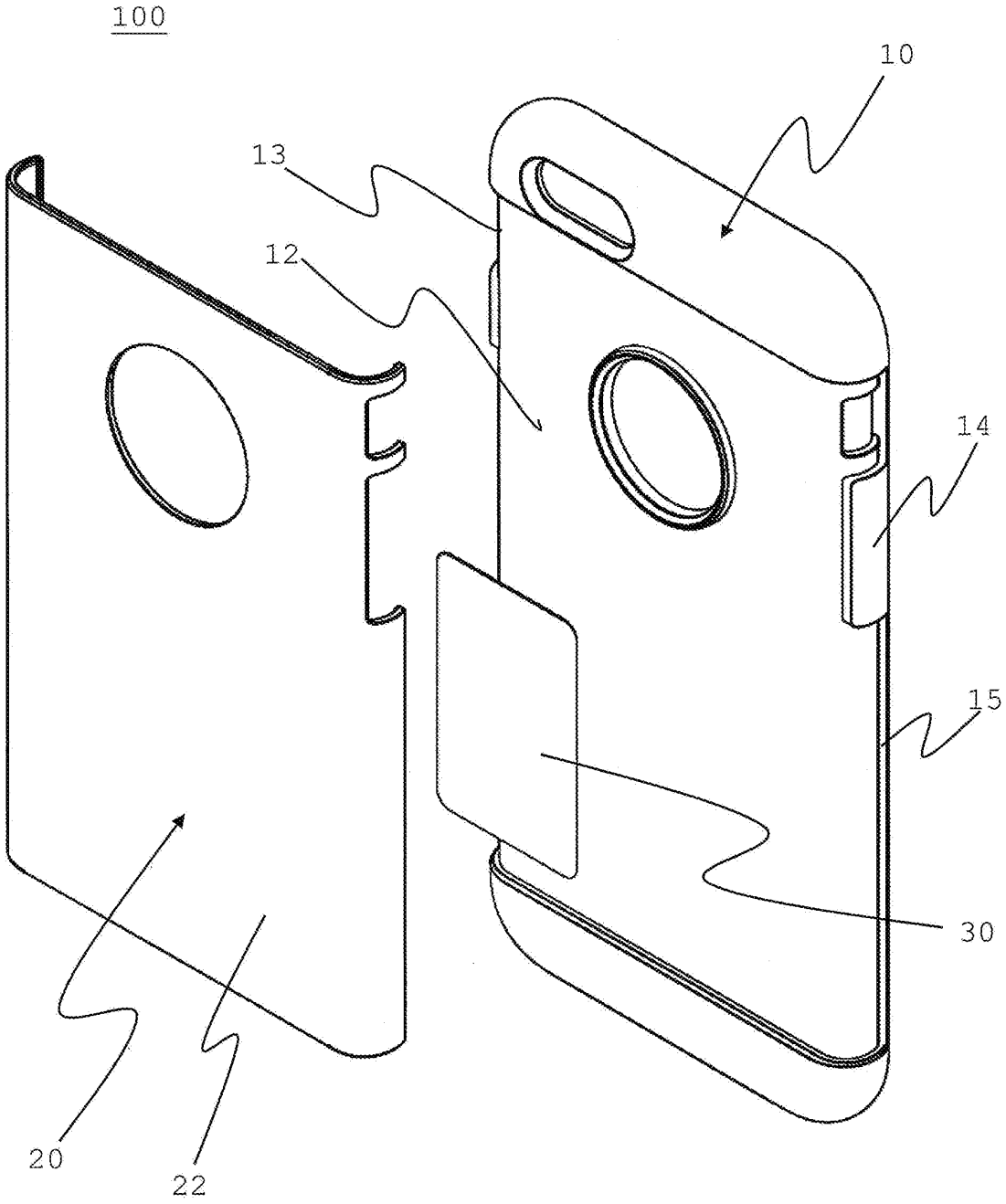


FIG. 10

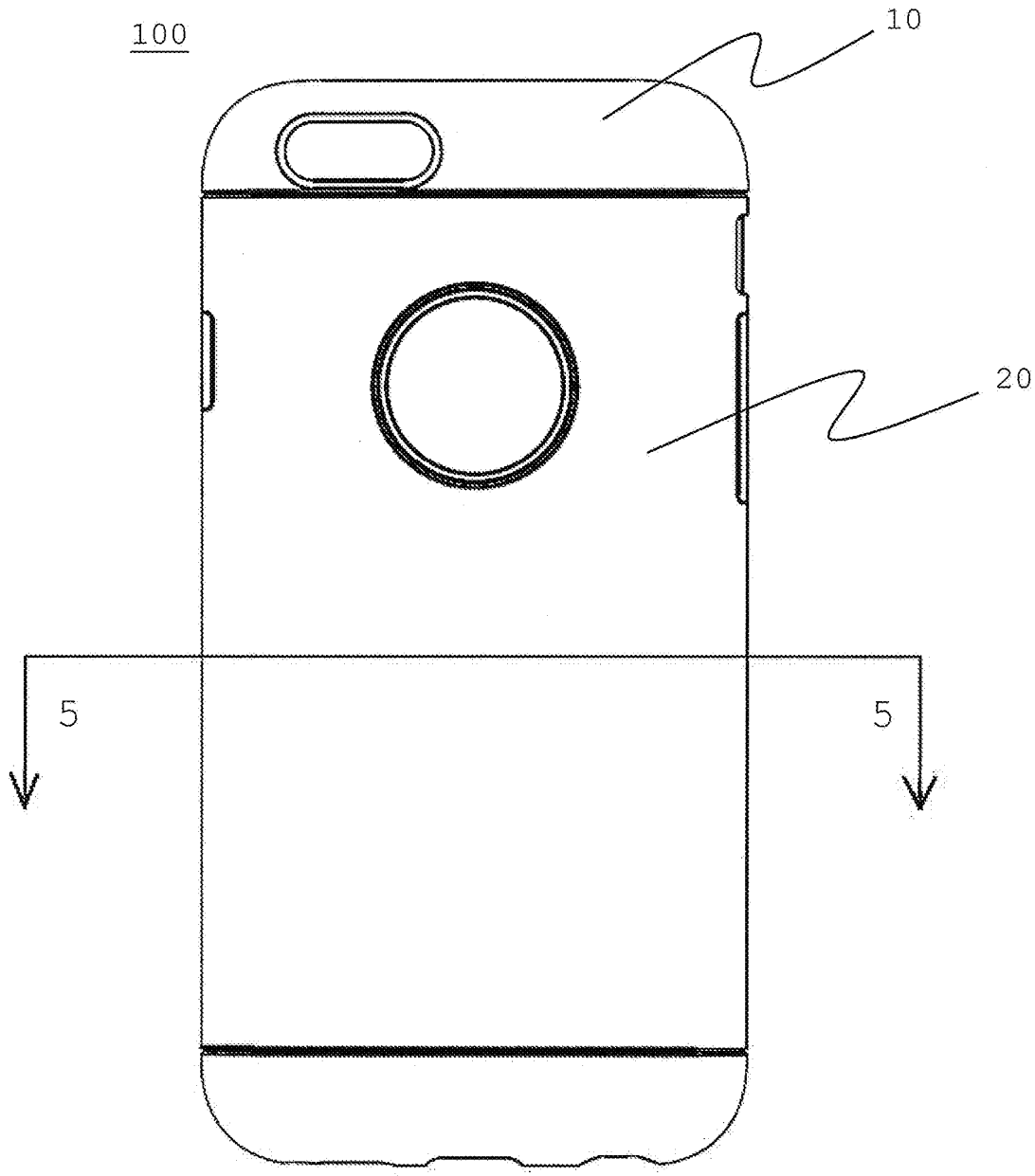


FIG. 11

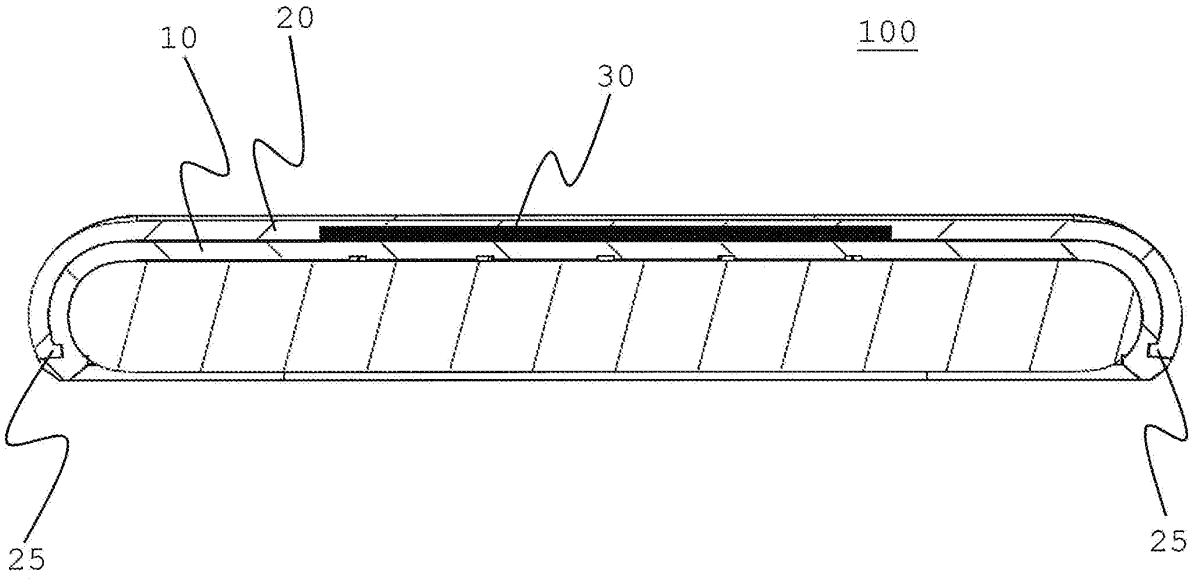


FIG. 12

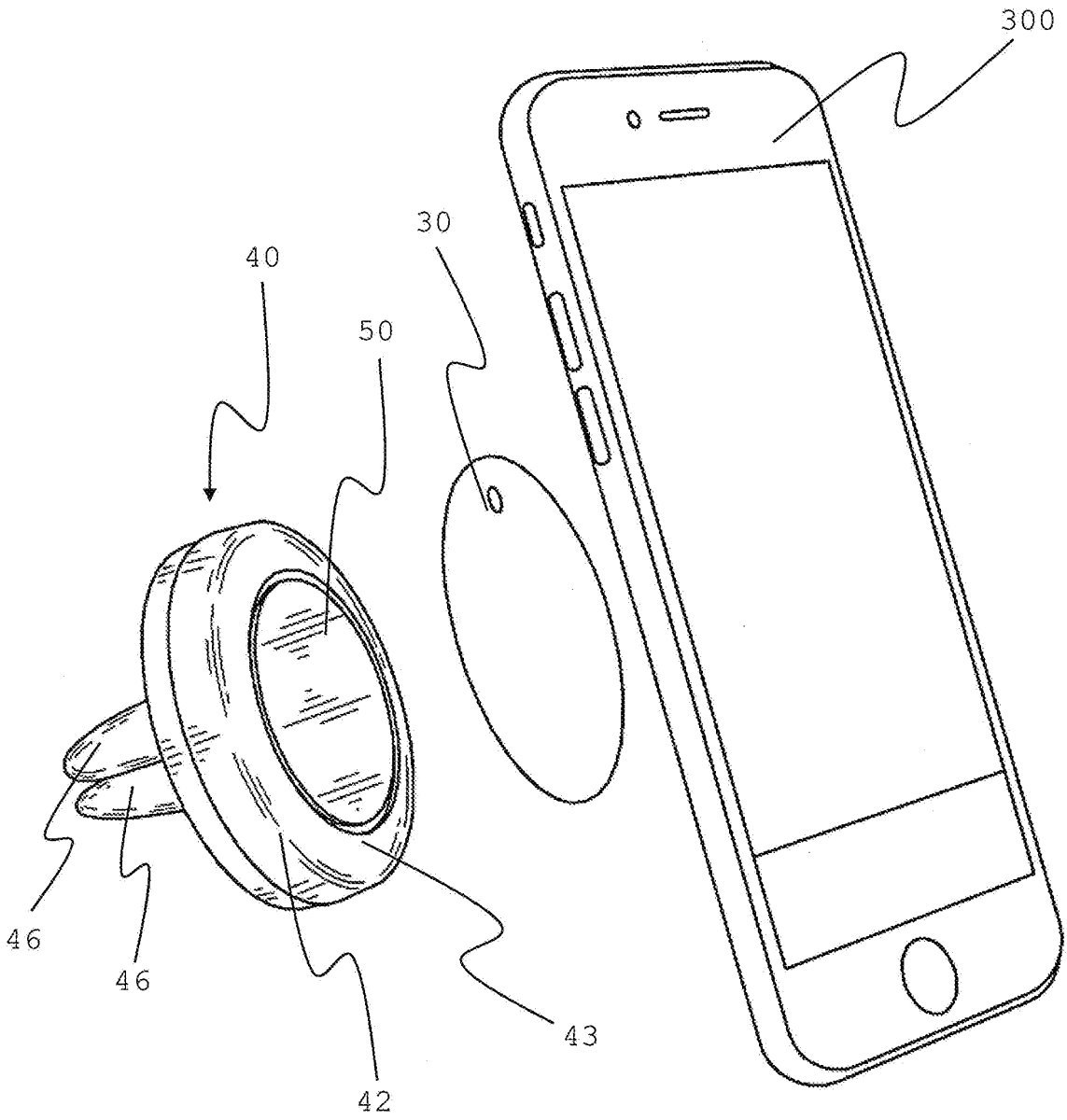


FIG. 13

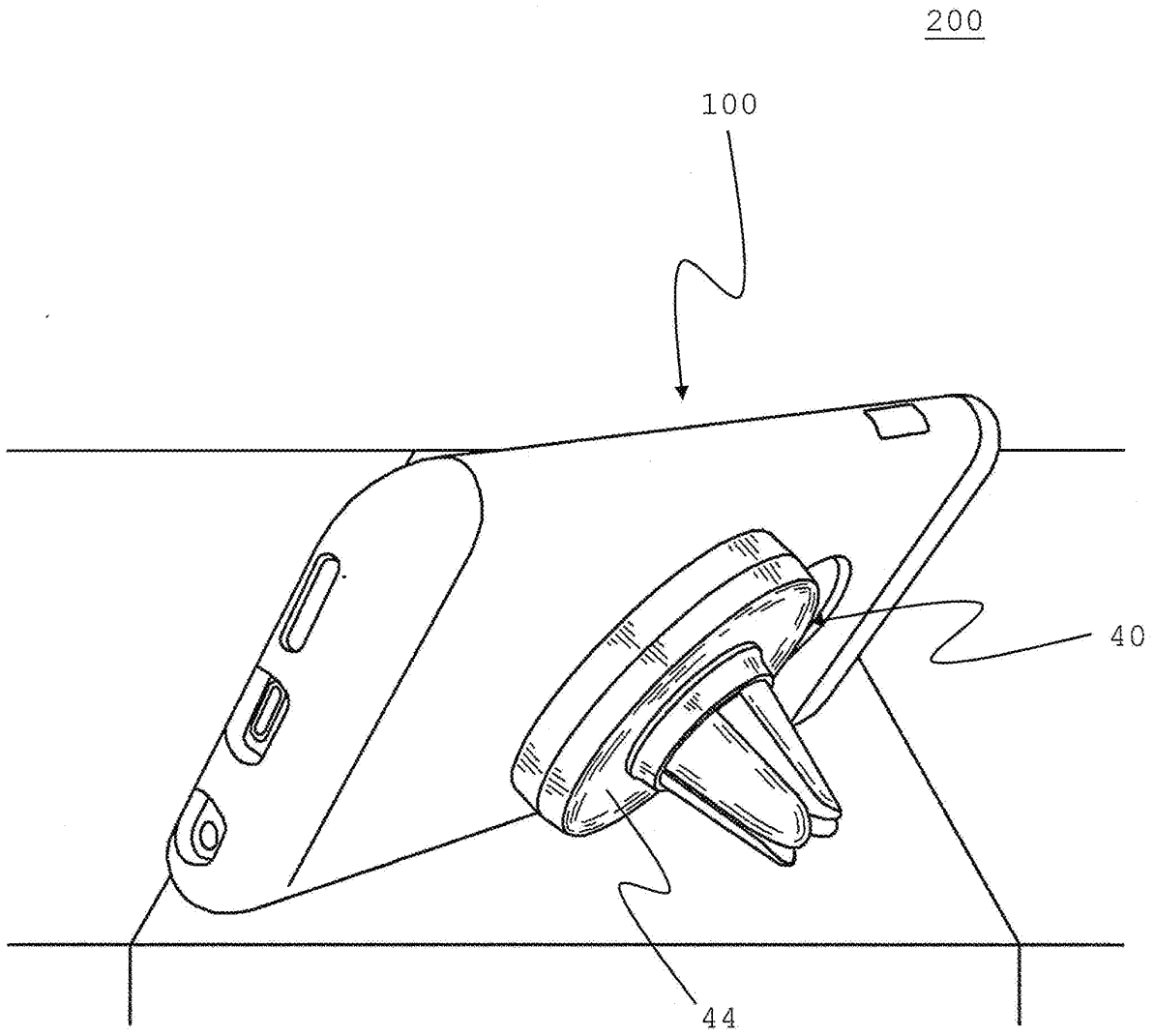


FIG. 14

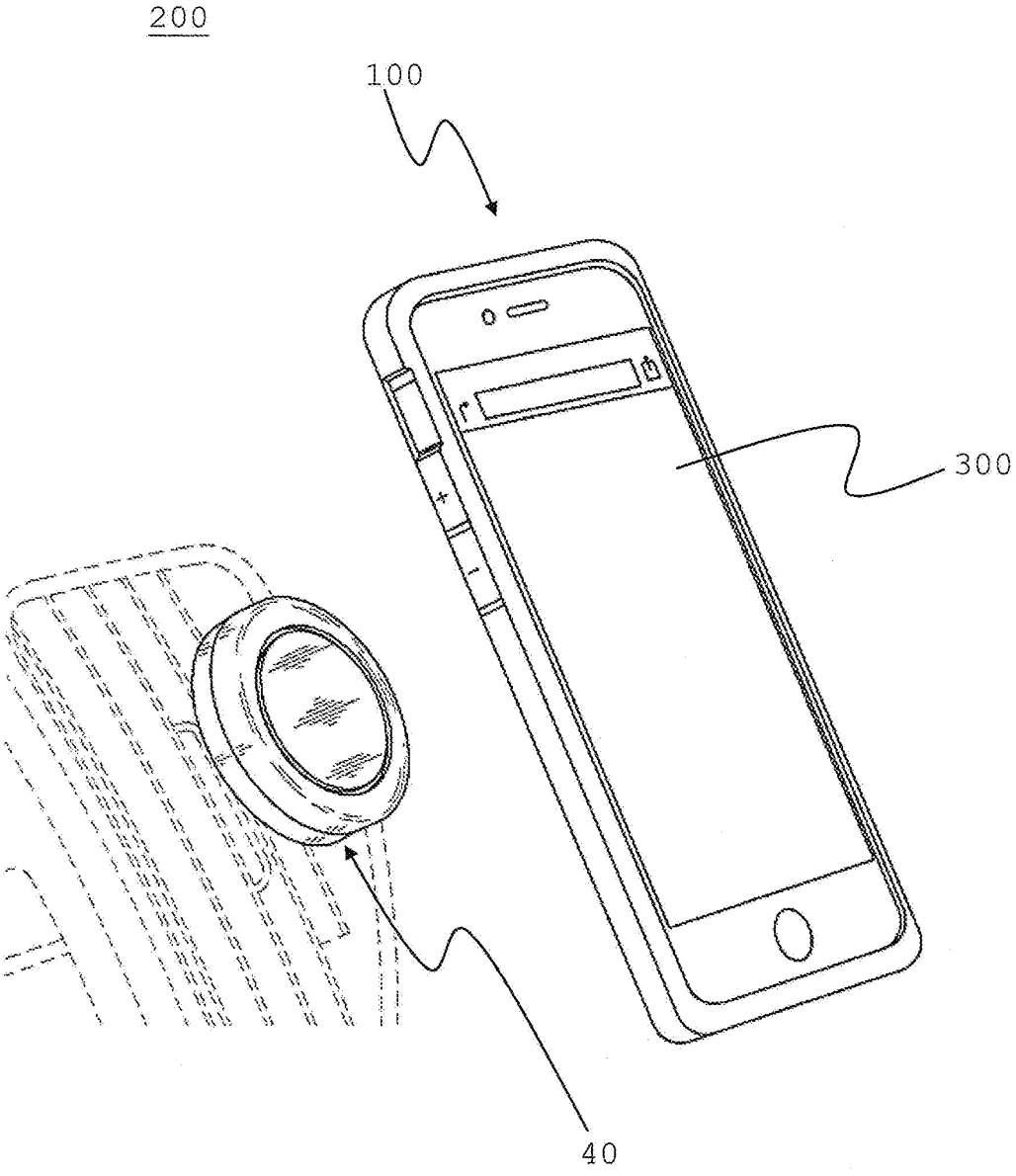


FIG. 15

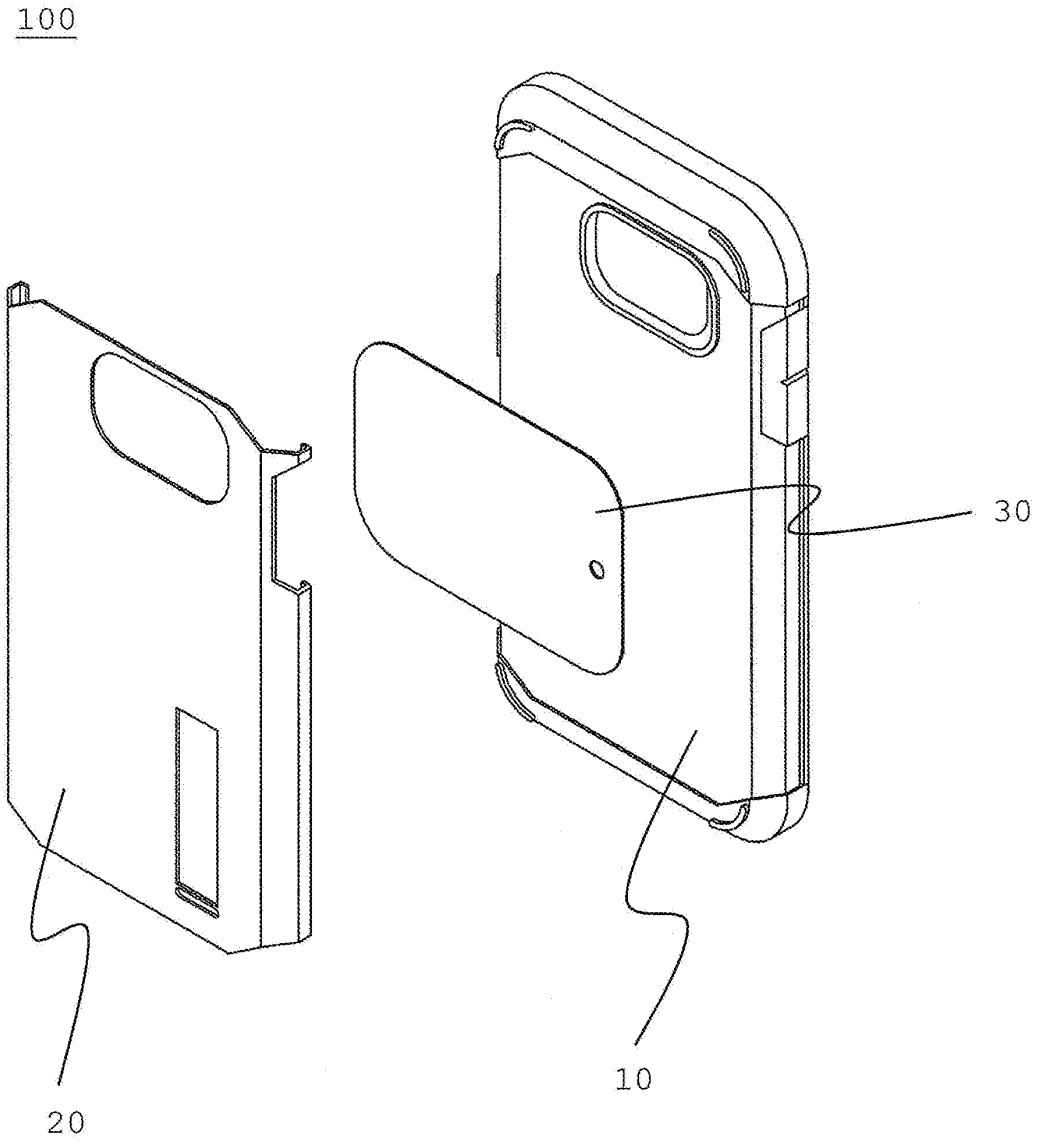


FIG. 16

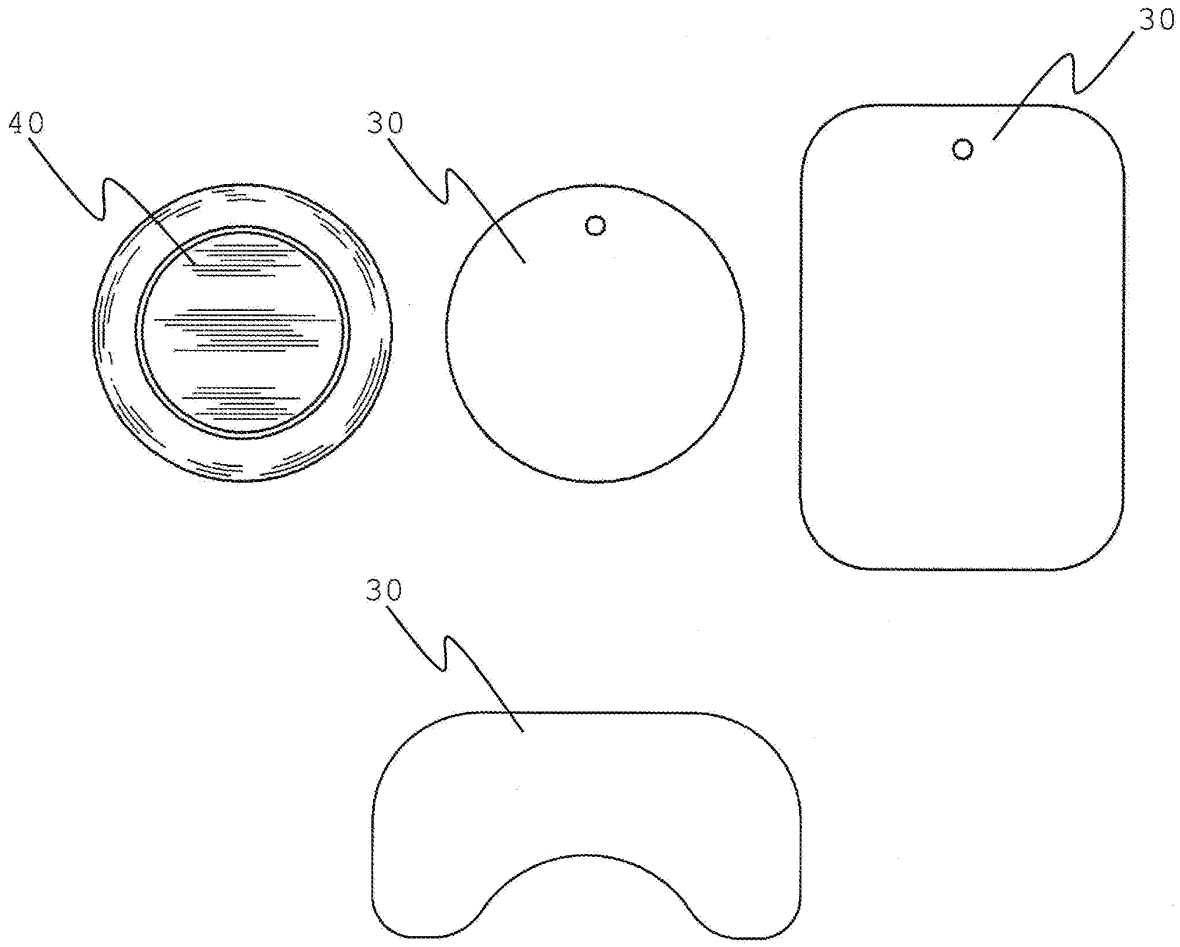


FIG. 17

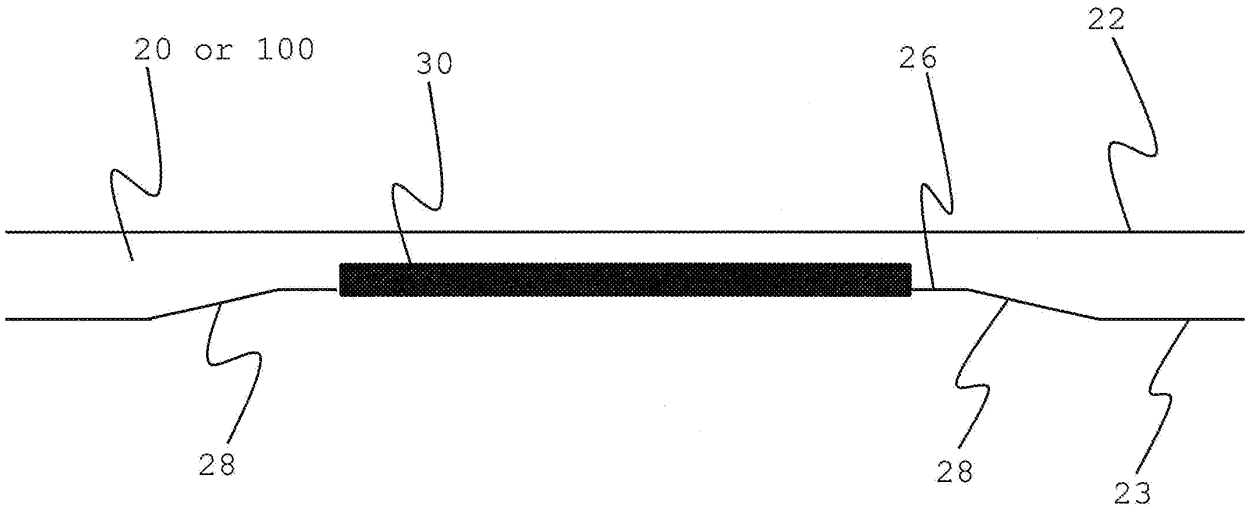
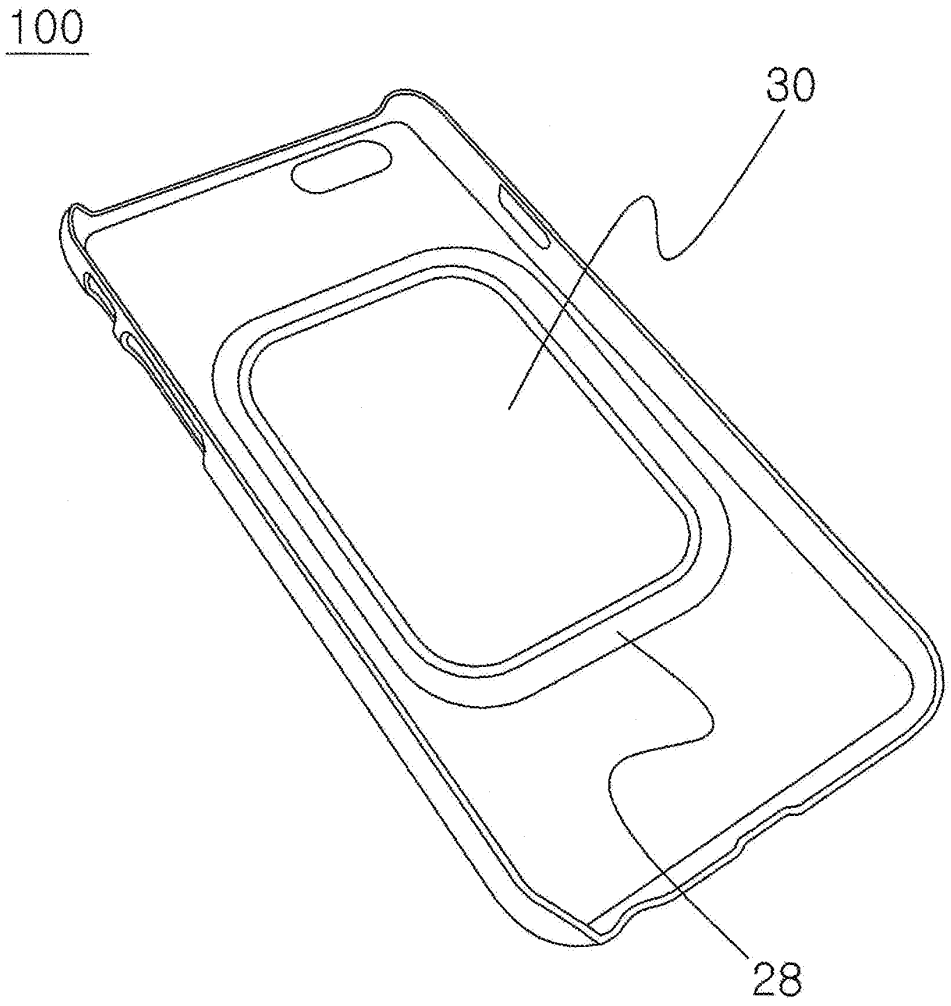


FIG. 18



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/989,033	05/24/2018	2854	785	7108PAT390	20	2

CONFIRMATION NO. 1068

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Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

FILING RECEIPT

OC000000100295842

Date Mailed: 06/15/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

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Applicant(s)

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Assignment For Published Patent Application

SPIGEN KOREA CO., LTD., SEOUL, KOREA, REPUBLIC OF

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 62/511,280 05/25/2017

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/989,033**

Projected Publication Date: 11/29/2018

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **
Title

MAGNETIC MOUNT FOR ELECTRONIC DEVICES

Preliminary Class

101

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/989,033

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 230 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	785		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

107876 7590 07/11/2018

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

EXAMINER	
ART UNIT	PAPER NUMBER
2854	

NOTIFICATION DATE	DELIVERY MODE
07/11/2018	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):

hdchae@lucemlaw.com
patent@lucemlaw.com
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Doc Code:
TRACK1.GRANT

Decision Granting Request for Prioritized Examination (Track I or After RCE)	Application No.: 15/989,033

1. THE REQUEST FILED May 24, 2018 IS **GRANTED.**

The above-identified application has met the requirements for prioritized examination
A. ☒ for an original nonprovisional application (Track I).
B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;
B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;
C. filing a **request for continued examination**;
D. filing a notice of appeal;
E. filing a request for suspension of action;
F. mailing of a notice of allowance;
G. mailing of a final Office action;
H. completion of examination as defined in 37 CFR 41.102; or
I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to Cheryl Gibson-Baylor at (571)272-3213, Office of Petitions. In his/her absence, calls may be directed to Brian W. Brown, (571)272-5338.

Cheryl Gibson-Baylor
/Cheryl Gibson-Baylor/
[*Signature*]

Petitions Paralegal Specialist
(Title)

U.S. Patent and Trademark Office
PTO-2298 (Rev. 02-2012)

Office of Petitions: Routing Sheet



Application No. 15989033

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

- [X] **GRANTED**
- [ ] **DISMISSED**
- [ ] **DENIED**

Office of Petitions: Decision Count Sheet

Mailing Month 7

Application No. 15989033

15989033

For US serial numbers: enter number only, no slashes or commas. Ex: 10123456
For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official: GIBSON-BAYLOR, CHERYL

Count (1) - Palm Credit 15989033

Decision: GRANT

FINANCE WORK NEEDED
☐ Select Check Box for YES

GRANT

Decision Type: 643 - Track One request

643

Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box ☐

Printed on: 7/6/2018

Office of Petitions Internal Document - Ver. 5.0

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

107876 7590 08/06/2018

Lucem, PC
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Los Angeles, CALIFORNIA 90017
UNITED STATES OF AMERICA

EXAMINER	
TRANDAI, CINDY HUYEN	
ART UNIT	**PAPER NUMBER**
2647	
NOTIFICATION DATE	**DELIVERY MODE**
08/06/2018	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):

hdchae@lucemlaw.com
iplaw.advocate@gmail.com
patent@lucemlaw.com

Office Action Summary	**Application No.** 15/989,033	**Applicant(s)** Kim, Dae-Young	
	Examiner CINDY H TRANDAI	**Art Unit** 2647	**AIA Status** Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 5/24/2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-19 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-19 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 5/24/2018 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Objections

Claims 1-20 are objected to because of the following informalities: remove the parentheses and the numbers within as they are not part of the claim limitation. Appropriate correction is required.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 10-11, 13-18 are rejected under 35 U.S.C. 103 as being unpatentable over Partovi et al. (US 20110050164 A1) hereinafter referred as Partovi'64 in view of Partovi (US 20120235636 A1) hereinafter referred as Partovi'36.

Regarding claim 1, artovi'64 teaches a case (100) for an electronic device (300) ***(Figs. 1-47, corresponding text in spec.)*** wherein the electronic device (300) has a receiver coil (310) for wireless charging ***(Fig. 20 and Par. 182)*** and the receiver coil (310) is formed in between an inner boundary (320)

and an outer boundary (330***) (Figs. 45, 47 and Pars. 216-217)***, the case comprising: a hard protective frame (20) ***(Fig. 29 and Par. 183)*** constructed to receive the electronic device (300) therein ***(Figs. 20-21)*** wherein the hard protective frame (20) has a recess (26) which faces the electronic device (300) ***(Figs. 20-21)***; and a metal plate (30) constructed to be received in the recess (26) of the hard protective frame (20) ***(Figs. 20-21 and Par. 152 & See also Par. 217)***, wherein the metal plate (30) is constructed to enable magnetic retention or attachment of the case (100) to a support (40) having a magnet (50) ***(Fig. 27 and Pars. 97, 152, 176-177, 195-196)***, wherein the metal plate (30) has a rounded concave edge (35) ***(Figs. 20-21 and Pars. 152, 205, 220),*** wherein the metal plate (30) received in the recess (26) is constructed not to substantially block the area formed by the inner boundary ***(Pars. 152, 220).***

However, Partovi'64 fails to mention magnetic waves passing through the area formed by the inner boundary.

In the same field of endeavor, Partovi'36 teaches such feature ***(Partovi'36, Pars. 182, 191-195 & See also Figs. 1-51, corresponding text in spec.).***

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Partovi'36 into Partovi'64 in order to provide a safe and efficient operation of basic wireless charging ***(Partovi'36, Background)***.

Regarding claim 2, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 1, wherein the metal plate (30) does not overlap with an orthographic parallel projection of the area formed by the inner boundary (320) onto a projection plane of the metal plate (30) ***(Partovi's 64, Figs. 20-21 and Pars. 152, 216-217 & See also)***.

Regarding claim 3, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 1, wherein the inner boundary (320) and the outer boundary (330) are substantially circular ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36).***

Regarding claim 4, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 1, wherein the rounded concave edge (35) substantially symmetrically aligns to respective orthographic parallel projections of the inner boundary (320) and the outer boundary (330) onto a projection plane of the metal plate (30) ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***.

Regarding claim 5, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 4, wherein the rounded concave edge (35) at least partially overlaps with an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30) ***(Partovi'64, Pars. 152, 205)***.

Regarding claim 6, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 4, wherein the rounded concave edge (35) is placed outside an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30) ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***.

Regarding claim 7, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 1, wherein the metal plate (30) is substantially rectangular with a first side (34) having the rounded concave edge (35), wherein the

metal plate (30) has third and fourth sides (31, 32) that are substantially parallel to each other and has a second side (33) that is substantially parallel to the first side (34) ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***.

Regarding claim 10, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 1, wherein the metal plate (30) is attached to the hard protective frame (20) by an adhesive (37) ***(Par. 165).***

Regarding claim 11, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 1, wherein the hard protective frame (20) further comprises a surrounding recess (28) which surrounds the recess (26) and slopes away from a flat surface (23) of the hard protective frame (20) towards the recess (26) forming a cavity ***(Fig. 29)***.

Regarding claim 13, artovi'64 teaches a metal plate (30) for magnetically mounting an electronic device (300) or a case (100) with an electronic device (300) installed therein ***(Figs. 1-47, corresponding text in spec.)*** wherein the electronic device (300) has a receiver coil (310) for wireless charging ***(Fig. 20 and Par. 182)*** and the receiver coil (310) is formed in between an inner boundary (320) and an outer boundary (330) ***) (Figs. 45, 47 and Pars. 216-217)***, the metal plate (30) comprising: a rounded concave edge (35) ***(Figs. 20-21 and Pars. 152, 205)***, wherein the metal plate (30) is constructed to be attachable to the electronic device (300) or the case (100) ***(Figs. 20-21 and Pars. 152, 205)***, wherein the metal plate (30) is constructed to enable magnetic retention or attachment of the electronic device (300) to a support (40) having a magnet (50) ***(Fig. 27 and Pars. 97, 152, 176-177, 195-196)***, wherein the metal

plate (30) attached to the electronic device (300) or the case (100) is constructed not to substantially block the area formed by the inner boundary ***(Pars. 152, 205).***

However, Partovi'64 fails to mention magnetic waves passing through the area formed by the inner boundary.

In the same field of endeavor, Partovi'36 teaches such feature ***(Partovi'36, Pars. 182, 191-195 & See also Figs. 1-51, corresponding text in spec.).***

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Partovi'36 into Partovi'64 in order to provide a safe and efficient operation of basic wireless charging ***(Partovi'36, Background)***.

Regarding claim 14, apparatus of claim 14 is performed by the apparatus of claim 2. They recite theoretical/similar limitations. Applicant is kindly advised to refer to rejection of claim 2.

Regarding claim 15, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 13, wherein the inner boundary (320) and the outer boundary (330) are substantially circular ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***.

Regarding claim 16, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 13, wherein the rounded concave edge (35), the inner boundary (320), and the outer boundary (330) are substantially symmetrical with respect to a same line ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***.

Regarding claim 17, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 16, wherein the rounded concave edge (35) at least partially overlaps with an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30) ***(Partovi'64, Fig. 47)***.

Regarding claim 18, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 16, wherein the rounded concave edge (35) is placed outside an orthographic parallel projection of the outer boundary (330) onto a projection plane of the metal plate (30) ***(Partovi'64, Fig. 47)***.

Claims 8-9 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Partovi et al. (US 20110050164 A1) hereinafter referred as Partovi'64 in view of Partovi (US 20120235636 A1) hereinafter referred as Partovi'36 and in further view of Cheung (US 20120151973 A1).

Regarding claim 8, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 7, wherein the metal plate (30) has corners ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***.

However, the combination of Partovi'64 and Partovi'36 fails to mention the corners as taught above are rounded.

Cheung teaches the arc shape 121 of the link plate has rounded corners (Figs. 1-3).

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Cheung into the combination of Partovi'64 and Partovi'36 in order to use other shape for the arc magnet that can maintain charging capability ***(Partovi'64, Par. 80)***.

Regarding claim 9, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 1, wherein the metal plate (30) is substantially trapezoidal wherein the rounded concave edge (35) is formed on a shorter side (34) of two parallel sides (33, 34), and wherein the metal plate (30) has corners ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***.

However, the combination of Partovi'64 and Partovi'36 fails to mention the corners as taught above are rounded.

Cheung teaches the arc shape 121 of the link plate has rounded corners (Figs. 1-3).

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Cheung into the combination of Partovi'64 and Partovi'36 in order to use other shape for the arc magnet that can maintain charging capability ***(Partovi'64, Par. 80)***.

Regarding claim 19, the combination of Partovi'64 and Partovi'36 teaches previous claim. The combination of Partovi'64 and Partovi'36 further teaches the case of claim 13, wherein the metal plate (30) is substantially rectangular with a first side (34) having the rounded concave edge (35) ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***, and the metal plate (30) has corners ***(Partovi'64, Pars. 152, 205 & See also Fig. 28 of Partovi'36)***, wherein the metal plate (30) has third and fourth sides (31, 32) that are substantially parallel to each other and has a second side (33) that is substantially parallel to the first side (34) ***(Partovi'64, Pars. 152, 220)***.

However, the combination of Partovi'64 and Partovi'36 fails to mention the corners as taught above are rounded.

Cheung teaches the arc shape 121 of the link plate has rounded corners (Figs. 1-3).

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Cheung into the combination of Partovi'64 and Partovi'36 in order to use other shape for the arc magnet that can maintain charging capability ***(Partovi'64, Par. 80)***.

Claim 12 is rejected under 35 U.S.C. 103 as being unpatentable over Partovi et al. (US 20110050164 A1) hereinafter referred as Partovi'64 in view of Partovi (US 20120235636 A1) hereinafter referred as Partovi'36 and in further view of Richardson et al. (US 20110228458 A1).

Regarding claim 12, the combination of Partovi'64 and Partovi'36 teaches previous claim.

However, the combination of Partovi'64 and Partovi'36 fails to teach the case of claim 1, further comprising a soft protective cover (10) which comprises a back panel (12) to cover a back portion of the electronic device (300), and a side wall (14) extending from a top surface (11) of the back panel (12) along edges (13) of the back panel (12), wherein the hard protective frame (20) is constructed to removably mount over the soft protective cover (10).

In the same field of endeavor, Richardson teaches such feature ***(Fig. 1 & See also Figs. 2-13).***

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Richardson into the combination of Partovi'64 and Partovi'36 in order to provide a varying amount of protection ***(Richardson, Background)***.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Wang et al. US 20100018315 A1

Khan et al. US 20130229148 A1

Thiers US 20170062999 A1

Park US 20150214749 A1

Park et al. US 20180166905 A1

Standke et al. US 20160352151 A1

Van Den Brink et al. US 20150048752 A1

Sutherland et al. US 20140062799 A1

Wojcik (US 20160294427 A1)

Winkler US 20170098952 A1

Cho et al. US 20180109132 A1

Yang et al. US 20160119036 A1

Franklin US 20160003270 A1

Wang et al. US 20110148352 A1

Kim US 9484769 B2

Kim US 20170035172 A1

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CINDY HUYEN TRANDAI whose telephone number is (571)270-1914. The examiner can normally be reached on Monday-Thurs 9AM-6:30PM and Friday 8AM-Noon.

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.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A Maung can be reached on (571) 272-7882. 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.

/Cindy Trandai/
Primary Examiner, Art Unit 2647
7/23/2018

Notice of References Cited	Application/Control No. 15/989,033	Applicant(s)/Patent Under Reexamination Kim, Dae-Young	
	Examiner CINDY H TRANDAI	Art Unit 2647	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20110050164-A1	03-2011	Partovi; Afshin	H01F5/003	320/108
*	B	US-20120235636-A1	09-2012	Partovi; Afshin	H02J7/025	320/108
*	C	US-20110228458-A1	09-2011	Richardson; Curtis	H04M1/0252	361/679.01
*	D	US-20120151973-A1	06-2012	Cheung; Mei Ling	E05B67/003	70/49
*	E	US-20100018315-A1	01-2010	Wang; Hai	A61H23/0245	73/643
*	F	US-20130229148-A1	09-2013	KHAN; Taussif	H04B5/0093	320/108
*	G	US-20170062999-A1	03-2017	Thiers; Jean-Michel Andre	H04M1/0274	1/1
*	H	US-20150214749-A1	07-2015	PARK; Yu Ri	G01R33/07	307/104
*	I	US-20180166905-A1	06-2018	PARK; Soo Young	H02J7/02	1/1
*	J	US-20160352151-A1	12-2016	Standke; Randy	H02J50/12	1/1
*	K	US-20150048752-A1	02-2015	Van Den Brink; Joseph C.	H02J5/005	315/246
*	L	US-20140062799-A1	03-2014	Sutherland; Timothy J.	H01Q1/2266	343/702
*	M	US-20160294427-A1	10-2016	Wojcik; James J.	H04B1/3883	1/1

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)
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	Examiner CINDY H TRANDAI	Art Unit 2647	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20170098952-A1	04-2017	Winkler; David A.	H02J7/025	1/1
*	B	US-20180109132-A1	04-2018	CHO; Bumjin	H02J7/025	1/1
*	C	US-20160119036-A1	04-2016	YANG; SONGNAN	H04B5/0037	343/788
*	D	US-20160003270-A1	01-2016	Franklin; L. Christopher	F16B1/00	439/529
*	E	US-20110148352-A1	06-2011	Wang; Yuhua	B60R11/0241	320/108
*	F	US-9484769-B2	11-2016	Kim; Dae-Young	H02J7/025	1/1
*	G	US-20170035172-A1	02-2017	KIM; Dae-Young	A45C13/1069	1/1
	H					
	I					
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	N					
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	P					
	Q					
	R					
	S					
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	Art Unit
	CINDY H TRANDAI	2647

CPC - Searched*		
Symbol	Date	Examiner
A45C13/002	07/23/2018	ct

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093	07/23/2018	ct

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search on USPAT, US-PGPUB, JPO, EPO and DERWENT in EAST	07/23/2018	ct

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	Assignee search in EAST	07/23/2018	ct

/CT/ Primary Examiner, Art Unit 2647	/CT/ Primary Examiner, Art Unit 2647

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	Art Unit
	CINDY H TRANDAI	2647

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant			☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE								
Final	Original	07/23/2018								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"15989033"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 16:57
S2	75	(back or rear) near (case or cover) same magnetic$3 metal plate	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 17:05
S3	4	("20110228458" | "8746448").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 17:11
S4	113	(back or rear) near (panel) same magnetic$3 metal	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:04
S5	575	(back or rear) near (panel) same metal near plate	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:05
S6	10	(back or rear) near (panel) same metal near plate same attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:05
S7	6	(back or rear) near (case or cover) same metal near plate same attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:07
S8	17	("3990848" | "4647428" | "4808347" | "5342584" | "5938076").PN. OR ("6632405").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2018/07/13 19:08
S9	39	(back or rear) near (case or cover) same metal near plate and attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:12
S10	2	"15452342"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:13
S11	30	("20100081377" | "20110192857" | "20140299739" | "20140354218" | "20150320168" | "20160051019" | "20160072933" | "20160260532" | "4319097" | "5992807" | "7374142" | "9379759" | "9616821").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:17
S12	5652	magnetic near plate same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:09

S13	10	magnetic near plate with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:10
S14	2	magnet near plate with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:10
S15	3	magnetic near plate near magnetic with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:13
S16	30	magnetic near plate near magnetic with (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:13
S17	47	magnetic near plate near magnetic same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:15
S18	17	S17 not S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:15
S19	0	magnetic near plate near metal same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:16
S20	10	magnetic near plate same attach$5 same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:17
S21	2	magnetic near plate same attach$5 same (rear or back) near case	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:18
S22	8	magnetic near plate same attach$5 same (rear or back) near housing	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:18
S23	29	magnetic near plate same coil same (rear or back) near (cas$3 or housing or frame or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:22
S24	2344	coil same magnet$3 same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:27
S25	33	coil same magnet$3 near plate same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:28
S26	2370	coil same1 magnet$3 same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:29
S27	11542	wireless near charg$3 same coil	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2018/07/19 15:31

			DERWENT			
S28	160	wireless near charg$3 and coil (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:31
S29	1	"15783733"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 16:36
S30	18	("20150137742" | "20120274271" | "20140295199" | "20130257367" | "20160141099" | "20070217163" | "20160079671" | "20150048752" | "20140247188").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:03
S31	1	wireless near charg$3 and magnetic near plate same5 (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:11
S32	89	wireless near charg$3 and magnet same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:16
S33	2	(first or second) near magnet and coil and (US "20150214749" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 11:11
S34	13	("8669678" | "8901881").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:09
S35	42	concave near magnet same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:11
S36	6452	magnet same receiv$3 near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:31
S37	119	magnet same receiv$3 near coil same recess	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:31
S38	804	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:40
S39	28	magnet same receiv$3 near coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:41
S40	39	wireless adj3 (charg$3 or power) and magnet near plate same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:13
S41	1	receiver adj coil and transmit$5 adj coil and magnet and (US "20160003270" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:25

S42	1	receiver adj coil and magnet and (US "20160003270" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:39
S43	70	(partovi afshin).inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 11:58
S44	2	US "20050115916" A1	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 13:57
S45	28049	(H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:46
S46	834	(A45C13/002).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:47
S47	6456	magnet same receiv$3 near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S48	347	S47 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S49	1	S45 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S50	804	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:49
S51	30	S50 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:49
S52	170	(spigen korea).as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:50
S53	1	receiv$3 near coil and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:50
S54	1	metal near plate same magnet$3 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:53
S55	2	metal near plate and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:53

EAST Search History (Interference)

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7/ 23/ 2018 5:12:56 PM
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Doc Code: PA..
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Application Number	15/989,033
Filing Date	May 24, 2018
First Named Inventor	Dae-Young Kim
Title	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
Art Unit	
Examiner Name	
Attorney Docket Number	7108PAT390

SIGNATURE of Applicant or Patent Practitioner

Signature	/HC/	Date (Optional)	
Name	Heedong Chae	Registration Number	69,240
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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Application Number	Filing Date
15/989,033	May 24, 2018

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Country					
Telephone		Email			

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

SPIGEN KOREA CO., LTD.

☐ 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	[signature]	Date (Optional)	
Name	Keon Chang Seo		
Title	US Law manager of SPIGEN KOREA CO., LTD.		

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Name	Registration Number

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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.

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.
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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:	33671757
Application Number:	15989033
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young Kim
Customer Number:	107876
Filer:	Heedong Chae
Filer Authorized By:	
Attorney Docket Number:	7108PAT390
Receipt Date:	10-SEP-2018
Filing Date:	24-MAY-2018
Time Stamp:	14:20:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	7108PAT390-POA-signed.pdf	1592817 09bcd72020603b978b30d80961e0d08ed085bb3a	no	4

Warnings:

Information:	
Total Files Size (in bytes):	1592817

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.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5132954

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAE-YOUNG KIM	09/10/2018

RECEIVING PARTY DATA

Name:	SPIGEN KOREA CO., LTD.
Street Address:	446, BONGEUNSA-RO GANGNAM-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	06153

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15989033

CORRESPONDENCE DATA

Fax Number: (213)863-6332

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

Phone: 2133873630
Email: patent@lucemlaw.com
Correspondent Name: LUCEM, PC
Address Line 1: 660 S FIGUEROA ST. SUITE 1200
Address Line 4: LOS ANGELES, CALIFORNIA 90017

ATTORNEY DOCKET NUMBER:	7108PAT390
NAME OF SUBMITTER:	HEEDONG CHAE
SIGNATURE:	/hc/
DATE SIGNED:	09/10/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2
source=7108PAT390-Assignment-signed#page1.tif
source=7108PAT390-Assignment-signed#page2.tif

ASSIGNMENT

WHEREAS, I, Dae-Young Kim (hereafter, together with any successors, legal representatives or assigns thereof, called "Assignors"), invented certain new and useful invention and/or improvements disclosed in an application for United States Letters Patent titled:

"MAGNETIC MOUNT FOR ELECTRONIC DEVICES"

Filed: 05/24/2018
Application Serial No.: 15/989,033

AND WHEREAS, SPIGEN KOREA CO., LTD., residing at 446, Bongeunsa-ro Gangnam-gu Seoul, Republic of Korea 06153 (hereafter, together with any successors, legal representatives or assigns thereof, called "Assignees"), wants to acquire the entire right, title and interest in and to said improvements and application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to Assignees the entire right, title and interest in and to said invention and/or improvements, and said application and all divisions, substitutions, continuations, and continuations-in-part thereof, and all United States Letters Patents (and all other patents) which may be granted thereon and all reissues and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every member country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said invention and/or improvements in any foreign countries, and all patents (including all extensions, renewals and reissues thereof) granted for said invention and/or improvements in any foreign countries.

ASSIGNORS HEREBY authorize and require the United States Patent and Trademark Office to issue all patents for said invention and/or improvements to Assignees in accordance with the terms of this assignment. The right, title and interest is to be held and enjoyed by Assignees and Assignees' successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made.

AND ASSIGNORS HEREBY covenant that Assignors have full right to convey the entire interest herein assigned, and that Assignors have not executed, and will not execute, any agreement in conflict herewith;

AND ASSIGNORS HEREBY further covenant and agree that Assignors will communicate to Assignee any facts known to us respecting said invention and/or improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional continuation, continuations legal proceeding, sign all lawful papers, execute all divisional, continuation, continuations-in-part, substitute and reissue applications, make

all rightful oaths or declarations and generally do everything possible to aid Assignees to obtain and enforce proper patent protection for said invention and/or improvements in the USA and all countries.

IN TESTIMONY WHEREOF, ASSIGNORS hereunto set our hands:

Signature: _____ Date: 9/10/2018

Dae-Young Kim

STATE OF _____)
)ss.
COUNTY OF _____)

On _____, 2018 before the undersigned, a Notary Public for the State and County aforesaid, personally appeared _____ known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he/she executed the same.

_____
(Notary Public)

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
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390

CONFIRMATION NO. 1068

107876
Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

POA ACCEPTANCE LETTER

OC000000102247855

Date Mailed: 09/13/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/10/2018.

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**.

/rmohamed/

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/989,033	Filing Date 05/24/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	11/06/2018	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $50 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $230 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
ANITA JOHNSON

This collection of information is required by 37 CFR 1.16. 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, 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.

Claim Amendment under 37 CFR 1.121(c)

1. (Currently Amended) A case ~~(100)~~ for an electronic device ~~(300)~~ wherein the electronic device ~~(300)~~ has a receiver coil ~~(310)~~ for wireless charging constructed within the electronic device and the receiver coil ~~(310)~~ is formed in between an inner boundary ~~(320)~~ and an outer boundary ~~(330)~~, the case comprising:

a hard protective cover ~~frame (20)~~ constructed to receive the electronic device ~~(300)~~ therein wherein the hard protective cover ~~frame (20)~~ has a recess ~~(26)~~ which faces the electronic device ~~(300)~~ and the hard protective cover is external with respect to the electronic device; and

a metal plate ~~(30)~~ constructed to be received in the recess ~~(26)~~ of the hard protective cover ~~frame (20)~~,
wherein the metal plate ~~(30)~~ is constructed to enable magnetic retention or attachment of the case ~~(100)~~ to a support ~~(40)~~ having a magnet ~~(50)~~,
wherein the metal plate ~~(30)~~ has a rounded concave edge ~~(35)~~,
wherein the metal plate ~~(30)~~ received in the recess ~~(26)~~ is constructed not to substantially block magnetic waves passing through the area formed by the inner boundary.

2. (Currently Amended) The case of claim 1, wherein the metal plate ~~(30)~~ does not overlap with an orthographic

parallel projection of the area formed by the inner boundary ~~(320)~~ onto a projection plane of the metal plate ~~(30)~~.

3. (Currently Amended) The case of claim 1, wherein the inner boundary ~~(320)~~ and the outer boundary ~~(330)~~ are substantially circular.

4. (Currently Amended) The case of claim 1, wherein the rounded concave edge ~~(35)~~ substantially symmetrically aligns to respective orthographic parallel projections of the inner boundary ~~(320)~~ and the outer boundary ~~(330)~~ onto a projection plane of the metal plate ~~(30)~~.

5. (Currently Amended) The case of claim 4, wherein the rounded concave edge ~~(35)~~ at least partially overlaps with an orthographic parallel projection of the outer boundary ~~(330)~~ onto a projection plane of the metal plate ~~(30)~~.

6. (Currently Amended) The case of claim 4, wherein the rounded concave edge ~~(35)~~ is placed outside an orthographic parallel projection of the outer boundary ~~(330)~~ onto a projection plane of the metal plate ~~(30)~~.

7. (Currently Amended) The case of claim 1, wherein the

metal plate ~~(30)~~ is substantially rectangular with a first side ~~(34)~~ having the rounded concave edge ~~(35)~~,

wherein the metal plate ~~(30)~~ has third and fourth sides ~~(31, 32)~~ that are substantially parallel to each other and has a second side ~~(33)~~ that is substantially parallel to the first side ~~(34)~~.

8. (Currently Amended) The case of claim 7, wherein the metal plate ~~(30)~~ has rounded corners.

9. (Currently Amended) The case of claim 1, wherein the metal plate ~~(30)~~ is substantially trapezoidal wherein the rounded concave edge ~~(35)~~ is formed on a shorter side ~~(34)~~ of two parallel sides ~~(33, 34)~~, and wherein the metal plate ~~(30)~~ has rounded corners.

10. (Currently Amended) The case of claim 1, wherein the metal plate ~~(30)~~ is attached to the hard protective cover ~~frame (20)~~ by an adhesive ~~(37)~~.

11. (Currently Amended) The case of claim 1, wherein the hard protective cover ~~frame (20)~~ further comprises a surrounding recess ~~(28)~~ which surrounds the recess ~~(26)~~ and slopes away from a flat surface ~~(23)~~ of the hard protective

cover ~~frame (20)~~ towards the recess ~~(26)~~ forming a cavity.

12. (Currently Amended) The case of claim 1, further comprising a soft protective cover ~~(10)~~ which comprises a back panel ~~(12)~~ to cover a back portion of the electronic device ~~(300)~~, and a side wall ~~(14)~~ extending from a top surface ~~(11)~~ of the back panel ~~(12)~~ along edges ~~(13)~~ of the back panel ~~(12)~~, wherein the hard protective cover ~~frame (20)~~ is constructed to removably mount over the soft protective cover ~~(10)~~.

13. (Currently Amended) A metal plate ~~(30)~~ for magnetically mounting an electronic device ~~(300)~~ or a case ~~(100)~~ with an electronic device ~~(300)~~ installed therein wherein the electronic device ~~(300)~~ has a receiver coil ~~(310)~~ for wireless charging constructed within the electronic device and the receiver coil ~~(310)~~ is formed in between an inner boundary ~~(320)~~ and an outer boundary ~~(330)~~, the metal plate ~~(30)~~ comprising:

a rounded concave edge ~~(35)~~,

wherein the metal plate ~~(30)~~ is constructed to be attachable to the electronic device ~~(300)~~ or the case ~~(100)~~,

wherein the metal plate ~~(30)~~ is constructed to enable magnetic retention or attachment of the electronic device

~~(300)~~ to a support ~~(40)~~ having a magnet ~~(50)~~, wherein the metal plate ~~(30)~~ attached to the electronic device ~~(300)~~ or the case ~~(100)~~ is constructed not to substantially block magnetic waves passing through the area formed by the inner boundary.

14. (Currently Amended) The case of claim 13, wherein the metal plate ~~(30)~~ does not overlap with an orthographic parallel projection of the area formed by the inner boundary ~~(320)~~ onto a projection plane of the metal plate ~~(30)~~.

15. (Currently Amended) The case of claim 13, wherein the inner boundary ~~(320)~~ and the outer boundary ~~(330)~~ are substantially circular.

16. (Currently Amended) The case of claim 13, wherein the rounded concave edge ~~(35)~~, the inner boundary ~~(320)~~, and the outer boundary ~~(330)~~ are substantially symmetrical with respect to a same line.

17. (Currently Amended) The case of claim 16, wherein the rounded concave edge ~~(35)~~ at least partially overlaps with an orthographic parallel projection of the outer boundary ~~(330)~~ onto a projection plane of the metal plate ~~(30)~~.

18. (Currently Amended) The case of claim 16, wherein the rounded concave edge ~~(35)~~ is placed outside an orthographic parallel projection of the outer boundary ~~(330)~~ onto a projection plane of the metal plate ~~(30)~~.

19. (Currently Amended) The case of claim 13, wherein the metal plate ~~(30)~~ is substantially rectangular with a first side ~~(34)~~ having the rounded concave edge ~~(35)~~, and the metal plate ~~(30)~~ has rounded corners,

wherein the metal plate ~~(30)~~ has third and fourth sides ~~(31, 32)~~ that are substantially parallel to each other and has a second side ~~(33)~~ that is substantially parallel to the first side ~~(34)~~.

20. (Currently Amended) The case of claim 13, wherein the metal plate ~~(30)~~ is substantially trapezoidal, wherein the rounded concave edge ~~(35)~~ is formed on a shorter side ~~(34)~~ of two parallel sides ~~(33, 34)~~, and wherein the metal plate ~~(30)~~ has rounded corners.

Electronic Acknowledgement Receipt	
EFS ID:	34231763
Application Number:	15989033
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young Kim
Customer Number:	107876
Filer:	Heedong Chae
Filer Authorized By:	
Attorney Docket Number:	7108PAT390
Receipt Date:	06-NOV-2018
Filing Date:	24-MAY-2018
Time Stamp:	21:17:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	7108PAT390-OA-Response_EFS.pdf	188085 1e89bcf4efa1e2389a856f270899004d7834bb55	no	5

Warnings:

Information:					
2	Claims	7108PAT390-OA-ClaimAmds_EFS.pdf	65675 5dd21271681a29f1280a9def02d6f7a1e04e7c7e	no	6
Warnings:					
Information:					
			Total Files Size (in bytes):	253760	

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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
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Dae-Young Kim	)	Confirmation No: 1068
Application No. 15/989,033	)	Group Art Unit: 2647
Filed: May 24, 2018	)	Examiner: TRANDAI, CINDY HUYEN
For: *MAGNETIC MOUNT FOR ELECTRONIC DEVICES*	)	Date of Office Action: August 6, 2018

AMENDMENT IN RESPONSE TO OFFICE ACTION

Mailstop Amendment
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Examiner:

This is in response to the Office Action dated August 6, 2018 for which a response is due on November 6, 2018. Reconsideration and allowance of the patent application as amended is respectfully requested.

- **Amendments to the Claims:** Please amend the claims as described in the accompanying Claims Amendment.

No new matter was added in the amendment.

Remarks start on page 2 of this paper.

REMARKS

This is in response to the office action dated August 6, 2018. Applicant has amended the application as set forth above. Specifically, Applicant has amended claims 1-20. These amendments are fully supported by the originally filed application and thus, the amendments do not add new matter to the application. Upon the entry of the amendments, claims 1-20 are pending in this application. Applicant respectfully requests the entry of the amendments and reconsideration of the application.

Claim Objections

The Office objected claims 1-20 for the presence of parentheses and numbers included therein for not being part of the claim limitation. In response, Applicant amended the above claims in accordance to the Office instructions, and thus, the amendments render the Office's objections moot.

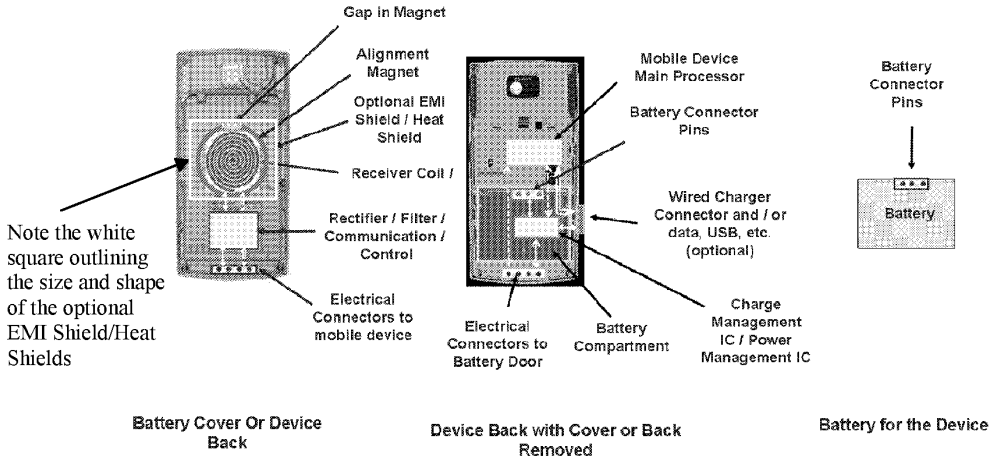
Claim Rejections under 35 U.S.C. § 103

The Office rejected claims 1-7, 10-11, and 13-18 under 35 U.S.C. § 103 as being unpatentable over U.S. Pub. No. 20110050164 A1 (hereinafter as "Partovi-164") in view of U.S. Pub. No. 20120235636 (hereinafter as "Partovi-636"). Additionally, the Office rejected claims 8, 9, and 19 under 35 U.S.C. § 103 as being unpatentable over Partovi-164 in view of Partovi-636 and in further view of U.S. Pub. No. 20120151973 (hereinafter as "Cheung"). Applicant respectfully traverses these rejections. Additionally, Applicant wishes to note that the Office did not list or mention claim 20 as one of the claims rejected under this section.

With respect to claims 1 and 13, the Office asserts that Partovi-164 teaches the respective embodiments recited therein but for the magnetic waves passing through the area formed by an inner boundary. The Office cites Partovi-636 as curing this deficiency from Partovi-164's teachings. Particularly, the Office cites Partovi-164 as teaching a metal plate having a rounded concave edge (Partovi-164, FIGS. 20-21 and ¶¶ 152, 205, and 220) (Office Action, p. 3). Applicant respectfully disagrees and submits that none of the cited art teaches a metal plate (30) as recited in amended claims 1 and 13 of the present application. Specifically, from representative figures and paragraphs cited by the Office, Partovi-164 fails to identify or

infer a metal plate (30) having a rounded concave edge and a specific position with respect to the electronic device (300) (Partovi-164, ¶¶ 152, 205, and 220).

First, neither of the structures taught by Partovi-164 is external to the electronic device. The optional EMI/Heat Shields stated therein are "to provide shielding from the magnetic field or any generated heat to the mobile device or to its battery" (Partovi-164, ¶ 205). Therefore, the EMI Shield and/or the Heat Shield would have to be situated internally between the receiver coil and the battery of the electronic device to achieve their stated purpose (e.g. preventing electromagnetic interference or heat buildup to sensitive internal structures of the electronic device), *Id.* Second, as shown below, FIG. 20 of Partovi-164 clearly points to a square-shaped region outlined in white covering the entire receiver coil as being either the optional EMI Shield or Heat Shield. These elements taught by Partovi-164 are opposed to the structure and function of the embodiments recited by amended claims 1 and 13. Amended claims 1 and 13 of the present application respectively recite a metal plate (30) with a rounded concave edge rather than a straight-lined edge of a square as taught by the cited art. Third, the metal plate (30) does not cover the receiver coil in its entirely due to the need to allow a magnetic field to interact with the receiver coil (310) within the electronic device, which is in stark contrast to the cited art teaching of blocking EMI and/or heat transfer between the receiver coil and the battery (Partovi-164, FIG. 20 as shown below, and ¶ 205). Thus, Partovi-164, alone or in combination with the other cited art, does not teach, suggest, or predict the structure and function of the metal plate (30), as recited by amended claims 1 and 13 respectively. Accordingly, Applicant respectfully requests that the Office withdraw the rejections to claims 1 and 13, as amended.



Partovi-164, FIG. 20 (annotated)

Dependent Claims

Applicant submits that the rejections of claims 1 and 13 under 35 U.S.C. § 103 have been overcome and the claims, as amended, are now allowable. Claims 2-12 and 14-20 trace their respective dependencies to either amended claims 1 or 13 and, thus, claims 2-12 and 14-20 should be allowable as well.

///

///

CONCLUSION

The applicant believes that the rejections were obviated by the amendment of the claims, and the application is now in condition for allowance: therefore, reexamination, reconsideration and allowance of the claims are respectively requested. If there are any additional comments or requirements from the examination, the applicant asks for a non-final office action.

Very truly yours,
Lucem, PC

Dated: 11/6, 2018

By: /hc/
Heedong Chae
Regis. No. 69,240

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390

CONFIRMATION NO. 1068

107876
Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

PUBLICATION NOTICE

OC000000104134963

Title:MAGNETIC MOUNT FOR ELECTRONIC DEVICES

Publication No.US-2018-0343025-A1
Publication Date:11/29/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

107876 7590 01/17/2019

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

EXAMINER
TRANDAI, CINDY HUYEN

ART UNIT	PAPER NUMBER
2647	

NOTIFICATION DATE	DELIVERY MODE
01/17/2019	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):

hdchae@lucemlaw.com
iplaw.advocate@gmail.com
patent@lucemlaw.com

Office Action Summary	**Application No.** 15/989,033	**Applicant(s)** Kim, Dae-Young	
	Examiner CINDY H TRANDAI	**Art Unit** 2647	**AIA Status** Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 11/06/2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 5/24/2018 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-11 and 13-20 are rejected under 35 U.S.C. 103 as being unpatentable over Kaynar et al. (US 20140354218 A1) in view of Lee et al. (US 20160241046 A1) and Rothbaum et al. US 20110192857 A1).

Regarding claim 1, Kaynar teaches a case for an electronic device wherein the electronic device has a receiver coil for wireless charging constructed within the electronic device ***(Kaynar, Par. 4, a personal electronic device with integrated conductive charging of the personal electronic device)***, the case comprising: a hard protective cover constructed to receive the electronic device ***(Kaynar, Fig. 1 and Par. 16)*** therein wherein the hard protective cover has a recess which faces the electronic device ***(Kaynar, Fig. 1)*** and the hard protective cover is external with respect to the electronic device ***(Kaynar,***

Fig. 1 and Par. 16); and a metal plate (30) constructed to be received in the recess of the hard protective cover ***(Kaynar, Fig. 1 and Pars. 16-17)***, wherein the metal plate is constructed to enable magnetic retention or attachment of the case to a support having a magnet ***(Kaynar, Fig. 1 and Pars. 17-18)***, wherein the metal plate received in the recess is constructed not to substantially block magnetic waves passing through the area formed by the inner boundary ***(Kaynar, Fig. 1 and Pars. 17-18)***.

However, Kaynar fails to mention integrated conductive charging is a receiver coil. Kaynar also fails to mention the receiver coil (310) is formed in between an inner boundary and an outer boundary.

In same field of endeavor, Lee teaches such feature ***(Lee, Figs. 5-7, 10-11 & See also Figs. 1-13, corresponding text in spec.).***

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Lee into Kaynar in order to receive wireless power of a wireless power charge system ***(Lee, Background)***.

However, the combination of Kaynar and Lee fails to mention the protective cover is a hard protective cover; and wherein the metal plate has a rounded concave edge.

In the same field of endeavor, Rothbaum teaches such features ***(Rothbaum, Fig. 1 and Pars. 138-145, 247-248 & See also Figs. 2-65)***.

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Lee into the combination of Kaynar and Lee in order to design a magnetic attachment system where a mobile electronic device case and an object for connection to the case will attach to one another in a preferred way ***(Rothbaum, Par. 257)***.

Regarding claim 2, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 1, wherein the metal plate

does not overlap with an orthographic parallel projection of the area formed by the inner boundary onto a projection plane of the metal plate ***(Rothbaum, Fig. 1 and Pars. 138-145, 247-248).***

Regarding claim 3, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 1, wherein the inner boundary and the outer boundary are substantially circular ***(Lee, Figs. 5-7, 10-11).***

Regarding claim 4, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 1, wherein the rounded concave edge substantially symmetrically aligns to respective orthographic parallel projections of the inner boundary and the outer boundary onto a projection plane of the metal plate ***(Rothbaum, Fig. 1 and Pars. 138-145, 247-248)***.

Regarding claim 5, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 4, wherein the rounded concave edge at least partially overlaps with an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate ***(Rothbaum, Fig. 1 and Pars. 138-145, 247-248).***

Regarding claim 6, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 4, wherein the rounded concave edge is placed outside an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate ***(Rothbaum, Fig. 1 and Pars. 138-145, 247-248)***.

Regarding claim 7, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 1, wherein the metal plate is substantially rectangular with a first side having the rounded concave edge, wherein the metal plate has third and fourth sides that are substantially parallel to each other and has a second side that is substantially parallel to the first side ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 8, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 7, wherein the metal plate has corners ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 9, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 1, wherein the metal plate is substantially trapezoidal wherein the rounded concave edge is formed on a shorter side of two parallel sides, and wherein the metal plate has corners ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 10, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 1, wherein the metal plate is attached to the hard protective frame by an adhesive ***(Rothbaum, Pars. 9, 147-149, 264).***

Regarding claim 11, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 1, wherein the hard protective frame further comprises a surrounding recess which surrounds the recess and slopes away from a flat surface of the hard protective frame towards the recess forming a cavity ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 13, apparatus of claim 13 is performed by the apparatus of claim 1. They recite theoretical/similar limitations. Applicant is kindly advised to refer to rejection of claim 1.

Regarding claim 14, apparatus of claim 14 is performed by the apparatus of claim 2. They recite theoretical/similar limitations. Applicant is kindly advised to refer to rejection of claim 2.

Regarding claim 15, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 13, wherein the inner boundary and the outer boundary are substantially circular ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 16, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the of claim 13, wherein the rounded concave edge, the inner boundary, and the outer boundary are substantially symmetrical with respect to a same line ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 17, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 16, wherein the rounded concave edge at least partially overlaps with an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 18, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 16, wherein the rounded

concave edge is placed outside an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 19, the combination of Kaynar, Lee and Rothbaum teaches previous claim. The combination of Kaynar, Lee and Rothbaum further teaches the case of claim 13, wherein the metal plate is substantially rectangular with a first side having the rounded concave edge, and the metal plate has corners, wherein the metal plate has third and fourth sides that are substantially parallel to each other and has a second side that is substantially parallel to the first side ***(Rothbaum, Pars. 138-145, 247-248)***.

Regarding claim 20, claim 20 recites same limitations as in claim 9. Applicant is kindly advised to refer to rejection of claim 9.

Claim 12 is rejected under 35 U.S.C. 103 as being unpatentable over Kaynar et al. (US 20140354218 A1) in view of Lee et al. (US 20160241046 A1) and Rothbaum et al. US 20110192857 A1) and in further view of Richardson et al. (US 20110228458 A1).

Regarding claim 12, the combination of Kaynar, Lee and Rothbaum teaches previous claim.

However, the combination of combination of Kaynar, Lee and Rothbaum fails to teach the case of claim 1, further comprising a soft protective cover which comprises a back panel to cover a back portion of the electronic device, and a side wall extending from a top surface of the back panel along edges of the back panel, wherein the hard protective frame is constructed to removably mount over the soft protective cover.

In the same field of endeavor, Richardson teaches such feature ***(Fig. 1 & See also Figs. 2-13).***

Therefore, it would have been obvious for one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the above teaching as taught by Richardson into the combination of combination of Kaynar, Lee and Rothbaum in order to provide a varying amount of protection ***(Richardson, Background)***.

Response to Arguments

Applicant's arguments with respect to claims 1 and 13 have been considered but are moot in view of new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Kurs et al. US 9842688 B2

Kim US 9484769 B2

Yan et al. US 20170338676 A1

Stevens et al. US 9486910 B2

Kang et al. US 20180069294 A1

Yio et al. US 20170098958 A1

Kim et al. US 20170077727 A1

Holder US 20170264725 A1 [0008] A hands-free mount is disclosed as it may be implemented with a mobile device. The hands-free mount includes a detachable magnetic backing that enables a user to mount their mobile device to any surface (e.g., any metallic or non-metallic surface). In an example, a thin piece of metal is inserted into the back of any case for a mobile device. This can then be paired with a detachable magnetic material. In another example, a thin piece of magnetic material is inserted into

the back of the case for the mobile device to make the mobile device magnetic. This can then be paired (e.g., magnetically) with any metal material, including but not limited to a detachable metal plate.

Zhang US 20160318455 A1 [0094] In another embodiment, as an alternative way of using the mounting device disclosed above, the mounting device as shown in FIG. 6, 8-10 is capable of operating without the use of a receiving component. A user may first place a magnet metal piece such as a thin magnet metal plate inside a case for a phone between the case and the back of the phone

Yialamas US 20160236626 A1 [0026] Ferro-magnetic plates 45 are provided that have peel-away adhesive backings 47. The plates 45 are attached to the rear of the handheld electronic device 12 or any protective case that covers the handheld electronic device 12. The handheld electronic device 12 is placed against the hanger 41, where it is engaged by the magnets 48. Since multiple magnets 48 are being used, smaller, less expensive magnets 48 can be used. Likewise, smaller metal plates 45 can be affixed to the handheld electronic device 12 or any protective case 16 that shields the handheld electronic device 12.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CINDY HUYEN TRANDAI whose telephone number is (571)270-1914. The examiner can normally be reached on Monday-Thurs 9AM-6:30PM and Friday 8AM-Noon.

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.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A Maung can be reached on (571) 272-7882. 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.

/Cindy Trandai/
Primary Examiner, Art Unit 2647
1/10/2019

Notice of References Cited	Application/Control No. 15/989,033	Applicant(s)/Patent Under Reexamination	
	Examiner CINDY H TRANDAI	Art Unit 2647	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20140354218-A1	12-2014	KAYNAR; ALI	H02J7/0044	320/107
*	B	US-20160241046-A1	08-2016	LEE; Dong Hyuk	H02J50/90	1/1
*	C	US-20110192857-A1	08-2011	Rothbaum; Wayne Philip	B25F1/00	220/694
*	D	US-20110228458-A1	09-2011	Richardson; Curtis	H04M1/0252	361/679.01
*	E	US-9842688-B2	12-2017	Kurs; Andre B.	H02J50/12	1/1
*	F	US-9484769-B2	11-2016	Kim; Dae-Young	H02J7/025	1/1
*	G	US-20170338676-A1	11-2017	Yan; Bing	H02J7/0027	1/1
*	H	US-9486910-B2	11-2016	Stevens; Micah	F16M11/041	1/1
*	I	US-20180069294-A1	03-2018	KANG; Young Sung	H01Q1/2291	1/1
*	J	US-20170098958-A1	04-2017	YIO; Soon Joung	H02J50/10	1/1
*	K	US-20170077727-A1	03-2017	KIM; Hee Seung	H02J7/0042	1/1
*	L	US-20170264725-A1	09-2017	Holder; Josh	B60R11/0241	1/1
*	M	US-20160318455-A1	11-2016	Zhang; Ping	F16M11/105	1/1

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	
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	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.

Notice of References Cited	Application/Control No. 15/989,033	Applicant(s)/Patent Under Reexamination	
	Examiner CINDY H TRANDAI	Art Unit 2647	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20160236626-A1	08-2016	Yialamas; Constantine George	B60R11/02	1/1
	B					
	C					
	D					
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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)
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	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.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	Art Unit
	CINDY H TRANDAI	2647

CPC - Searched*		
Symbol	**Date**	**Examiner**
A45C13/002	07/23/2018	ct

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093	07/23/2018	ct

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
Search on USPAT, US-PGPUB, JPO, EPO and DERWENT in EAST	07/23/2018	ct
Update search in EAST	01/10/2019	ct

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	Assignee search in EAST	07/23/2018	ct

/CT/ Primary Examiner, Art Unit 2647	/CT/ Primary Examiner, Art Unit 2647

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	**Art Unit**
	CINDY H TRANDAI	2647

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/23/2018	01/10/2019							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20		✓							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"15989033"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 16:57
S2	75	(back or rear) near (case or cover) same magnetic$3 metal plate	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 17:05
S3	4	("20110228458" | "8746448").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 17:11
S4	113	(back or rear) near (panel) same magnetic$3 metal	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:04
S5	575	(back or rear) near (panel) same metal near plate	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:05
S6	10	(back or rear) near (panel) same metal near plate same attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:05
S7	6	(back or rear) near (case or cover) same metal near plate same attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:07
S8	17	("3990848" | "4647428" | "4808347" | "5342584" | "5938076").PN. OR ("6632405").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2018/07/13 19:08
S9	39	(back or rear) near (case or cover) same metal near plate and attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:12
S10	2	"15452342"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:13

S11	30	("20100081377" | "20110192857" | "20140299739" | "20140354218" | "20150320168" | "20160051019" | "20160072933" | "20160260532" | "4319097" | "5992807" | "7374142" | "9379759" | "9616821").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:17
S12	5652	magnetic near plate same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:09
S13	10	magnetic near plate with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:10
S14	2	magnet near plate with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:10
S15	3	magnetic near plate near magnetic with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:13
S16	30	magnetic near plate near magnetic with (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:13
S17	47	magnetic near plate near magnetic same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:15
S18	17	S17 not S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:15
S19	0	magnetic near plate near metal same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:16
S20	10	magnetic near plate same attach$5 same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:17
S21	2	magnetic near plate same attach$5 same (rear or back) near case	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:18
S22	8	magnetic near plate same attach$5 same (rear or back) near housing	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2018/07/19 15:18

			DERWENT			
S23	29	magnetic near plate same coil same (rear or back) near (cas$3 or housing or frame or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:22
S24	2344	coil same magnet$3 same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:27
S25	33	coil same magnet$3 near plate same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:28
S26	2370	coil same1 magnet$3 same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:29
S27	11542	wireless near charg$3 same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:31
S28	160	wireless near charg$3 and coil (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:31
S29	1	"15783733"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 16:36
S30	18	("20150137742" | "20120274271" | "20140295199" | "20130257367" | "20160141099" | "20070217163" | "20160079671" | "20150048752" | "20140247188").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:03
S31	1	wireless near charg$3 and magnetic near plate same5 (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:11
S32	89	wireless near charg$3 and magnet same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:16
S33	2	(first or second) near magnet and coil and (US "20150214749" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 11:11
S34	13	("8669678" | "8901881").PN.	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2018/07/20 12:09

			DERWENT			
S35	42	concave near magnet same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:11
S36	6452	magnet same receiv$3 near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:31
S37	119	magnet same receiv$3 near coil same recess	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:31
S38	804	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:40
S39	28	magnet same receiv$3 near coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:41
S40	39	wireless adj3 (charg$3 or power) and magnet near plate same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:13
S41	1	receiver adj coil and transmit$5 adj coil and magnet and (US "20160003270" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:25
S42	1	receiver adj coil and magnet and (US "20160003270" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:39
S43	70	(partovi afshin).inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 11:58
S44	2	US "20050115916" A1	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 13:57
S45	28049	(H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:46
S46	834	(A45C13/002).CPC.	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2018/07/23 16:47

			DERWENT			
S47	6456	magnet same receiv$3 near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S48	347	S47 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S49	1	S45 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S50	804	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:49
S51	30	S50 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:49
S52	170	(spigen korea).as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:50
S53	1	receiv$3 near coil and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:50
S54	1	metal near plate same magnet$3 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:53
S55	2	metal near plate and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:53
S56	1	"15989033"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:06
S57	30644	(H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S58	920	(A45C13/002).CPC.	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2019/01/08 17:07

			DERWENT			
S59	1	S57 and S58	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S60	851	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S61	30	S60 and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S62	30	S60 and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:24
S63	42	(back or rear) near (case or cover) same metal near plate and attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:40
S64	1	((back or rear) near (case or cover) same metal near plate same attach$5 magnet same coil).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 18:39
S65	5599	(H04B1/3888)).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:12
S66	851	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:13
S67	2	S65 and S66	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:13
S68	5599	(H04B1/3888).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:14
S69	10281	(H02J50/10 OR).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:15
S70	12	S66 and S69	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2019/01/08 19:15

			DERWENT			
S75	10	magnet same support ring same mobile near device	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:39
S76	4	magnet same support ring same inside back near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:46
S77	4	magnet inside back near (cover or case) same support ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:47
S78	4	magnet same inside back near (cover or case) same support ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:47
S79	0	magnet same metal near plate same back near (cover or case) same support ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:48
S80	6	magnet same metal near plate same back near (cover or case) same support	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:48
S81	0	"87466448"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:59
S82	16	"8746448"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:59
S83	18	("20090219677" | "20100222118" | "20110011906" | "20110266316" | "20110303709" | "20120011888" | "20120031937" | "20120063066" | "20140084034" | "8550317" | "8672374" | "8746448" | "8833820").PN. OR ("8887970").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2019/01/09 09:05
S84	3	US "9486910" B2 and magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:09
S85	35	("20090270050" | "20100222118" | "20110266316" | "20110284599" | "20120031937" | "20120326003" | "20130146625" | "20130313845" | "20140084034" | "5762305" | "7717483" | "8186642" | "8480144" |	US-PGPUB; USPAT; USOCR	WITH	ON	2019/01/09 09:12

		"8550317" | "8672374" | "8887970" | "9033384" | "9137915" | "D376308" | "D471400" | "D616285" | "D651205" | "D674380" | "D681420" | "D693818" | "D713140" | "D716287" | "D729787").PN. OR ("9486910").URPN.				
S86	41	magnet same metal near plate same (back or rear) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:19
S87	118	magnet and metal near plate same (back or rear) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:44
S88	77	S87 not S86	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:45
S89	2	"15452342"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:48
S90	6	("20140321052" | "8746448" | "20110228458").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 10:58
S91	74	magnet and metal near plate same (protect$5 or hard) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:02
S92	984	metal near plate same (protect$5 or hard) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:18
S93	5599	(H04B1/3888).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:19
S94	10281	(H02J50/10 OR).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:19
S95	15801	S93 or S94	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:19
S96	12	S92 and S95	US-PGPUB; USPAT;	WITH	ON	2019/01/09 11:19

			EPO; JPO; DERWENT			
S97	44	shape metal near plate same (protect$5 or hard) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:16
S98	22	metal near plate same (protect$5 or hard) near (cover or case) same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:17
S99	4	metal near plate same (protect$5 or hard) near (cover or case) and (receiv$3 or transmit$4) near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:21
S100	1258	metal near plate and (receiv$3 or transmit$4) near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:24
S101	103	S95 and S100	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:24
S102	103	S101 not S97	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:25
S103	102	S101 not S96	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:25
S104	102	S101 not S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:25
S105	8889814	"20" not "19"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 13:11
S106	6	("20080136369" | "20110050161" | "20110192857").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 13:29
S111	243	"7239110"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 16:26
S112	9	mobile near device same case near cover (hard or soft)	US-PGPUB; USPAT;	WITH	ON	2019/01/09 16:47

			EPO; JPO; DERWENT			
S113	162	device same case near cover (hard or soft)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 16:48
S114	3	US "20120151973" A1	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/10 09:05
S115	3	(metal or magnet) adj plate with (rear or back) near (cover or case) same1 coil near around	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/10 09:47
S116	12	(metal or magnet) adj plate with (rear or back) near (cover or case) same1 coil near (receiv$3 or transmit$5 or antenna)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/10 09:50

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S71	1	((back or rear) near (case or cover) same metal near plate same attach$5 magnet same coil).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 18:39
S72	0	(metal near plate same magnet same coil same (block$3 or prevent$3) ner (signal or wave)).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 18:45
S73	3	(metal near plate same (magnet or electromagnetic) near (signal or wave) same coil).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 18:46
S74	28	(rear near (cover or case) same (magnet or electromagnetic) near (signal or wave)).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 19:04
S107	79	(metal near plate same magnet same coil).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:10
S108	86	(metal near plate same magnet same (cover or case)).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:11
S109	2857114	"20" not "19"	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:12
S110	70	S108 not S107	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:12

1/10/2019 10:13:27 AM
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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/989,033	Filing Date 05/24/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	05/17/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $230 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ALLYSON PURNELL/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. 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, 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.

PTO/SB/30 (07-14)
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Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	15/989,033
Filing Date	May 24, 2018
First Named Inventor	Dae-Young KIM
Art Unit	2648
Examiner Name	TRANDAI, CINDY HUYEN
Attorney Docket Number	7108PAT390

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, to any international application that does not compy with the requirements of 35 U.S.C 371, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO on page 2.)

1. 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).

   a. ☐ 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.

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

      ii. ☐ Other _____

   b. ☑ Enclosed

      i. ☑ Amendment/Reply

      ii. ☐ Affidavit(s)/ Declaration(s)

      iii. ☐ Information Disclosure Statement (IDS)

      iv. ☐ Other _____

2. Miscellaneous

   a. ☐ 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)

   b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. ☐ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. _____.

      i. ☐ RCE fee required under 37 CFR 1.17(e)

      ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)

      iii. ☐ Other _____

   b. ☐ Check in the amount of $ _____ enclosed

   c. ☑ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/hc/	Date	2019-05-15
Name (Print/Type)	HEEDONG CHAE	Registration No.	69,240

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

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. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Instruction Sheet for RCEs

(not to be submitted to the USPTO)

NOTES:

An RCE is not a new application, and filing an RCE will not result in an application being accorded a new filing date.

Filing Qualifications:

The application must be a utility or plant application filed on or after June 8, 1995. The application cannot be a provisional application, a utility or plant application filed before June 8, 1995, an international application that does not comply with the requirements of 35 U.S.C. 371, a design application, or a patent under reexamination. See 37 CFR 1.114(e). An international application does not comply with the requirements of 35 U.S.C. 371 until the requirements under 35 U.S.C. 371(c), including the requirement for the inventor's oath or declaration under 35 U.S.C. 371(c)(4), have been complied with.

Filing Requirements:

Prosecution in the application must be closed. Prosecution is closed if the application is under appeal, or the last Office action is a final action, a notice of allowance, or an action that otherwise closes prosecution in the application (e.g., an Office action under *Ex parte Quayle*). See 37 CFR 1.114(b).

A submission and a fee are required at the time the RCE is filed. If reply to an Office action under 35 U.S.C. 132 is outstanding (e.g., the application is under final rejection), the submission must meet the reply requirements of 37 CFR 1.111. If there is no outstanding Office action, the submission can be an information disclosure statement, an amendment, new arguments, or new evidence. See 37 CFR 1.114(c). The submission may be a previously filed amendment (e.g., an amendment after final rejection).

WARNINGS:

Request for Suspension of Action:

All RCE filing requirements must be met before suspension of action is granted. A request for a suspension of action under 37 C FR 1.103(c) does not satisfy the submission requirement and does not permit the filing of the required submission to be suspended.

Improper RCE will NOT toll Any Time Period:

Before Appeal **-** If the RCE is improper (e.g., prosecution in the application is not closed or the submission or fee has not been filed) and the application is not under appeal, the time period set forth in the last Office action will continue to run and the application will be abandoned after the statutory time period has expired if a reply to the Office action is not timely filed. No additional time will be given to correct the improper RCE.

Under Appeal **-** If the RCE is improper (e.g., the submission or the fee has not been filed) and the application is under appeal, the improper RCE is effective to withdraw the appeal. Withdrawal of the appeal results in the allowance or abandonment of the application depending on the status of the claims. If there are no allowed claims, the application is abandoned. If there is at least one allowed claim, the application will be passed to issue on the allowed claim(s). See MPEP 1215.01.

See MPEP 706.07(h) for further information on the RCE practice.

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.

Claim Amendment under 37 CFR 1.121(c)

1. (Currently amended) A case for an electronic device wherein the electronic device has a receiver coil for wireless charging constructed within the electronic device and the receiver coil is formed in between an inner boundary and an outer boundary, the case comprising:

a hard protective cover constructed to receive the electronic device therein wherein the hard protective cover has a recess which faces the electronic device and the hard protective cover is external with respect to the electronic device; and

a metal plate constructed to be received in the recess of the hard protective cover,

wherein the metal plate is constructed to enable magnetic retention or attachment of the case to a support having a magnet,

wherein the metal plate has a rounded concave edge,

wherein the metal plate received in the recess is ~~constructed~~ positioned ~~not~~ to substantially ~~block~~ allow magnetic waves ~~passing~~ to pass through the area formed by the inner boundary.

2. (Previously presented) The case of claim 1, wherein the metal plate does not overlap with an orthographic

parallel projection of the area formed by the inner boundary onto a projection plane of the metal plate.

3. (Previously presented) The case of claim 1, wherein the inner boundary and the outer boundary are substantially circular.

4. (Previously presented) The case of claim 1, wherein the rounded concave edge substantially symmetrically aligns to respective orthographic parallel projections of the inner boundary and the outer boundary onto a projection plane of the metal plate.

5. (Previously presented) The case of claim 4, wherein the rounded concave edge at least partially overlaps with an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate.

6. (Previously presented) The case of claim 4, wherein the rounded concave edge is placed outside an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate.

7. (Previously presented) The case of claim 1, wherein

the metal plate is substantially rectangular with a first side having the rounded concave edge,

wherein the metal plate has third and fourth sides that are substantially parallel to each other and has a second side that is substantially parallel to the first side.

8. (Previously presented) The case of claim 7, wherein the metal plate has rounded corners.

9. (Previously presented) The case of claim 1, wherein the metal plate is substantially trapezoidal wherein the rounded concave edge is formed on a shorter side of two parallel sides, and wherein the metal plate has rounded corners.

10. (Previously presented) The case of claim 1, wherein the metal plate is attached to the hard protective cover by an adhesive.

11. (Previously presented) The case of claim 1, wherein the hard protective cover further comprises a surrounding recess which surrounds the recess and slopes away from a flat surface of the hard protective cover towards the

recess forming a cavity.

12. (Previously presented) The case of claim 1, further comprising a soft protective cover which comprises a back panel to cover a back portion of the electronic device, and a side wall extending from a top surface of the back panel along edges of the back panel, wherein the hard protective cover is constructed to removably mount over the soft protective cover.

13. (Currently amended) A metal plate for magnetically mounting an electronic device or a case with an electronic device installed therein wherein the electronic device has a receiver coil for wireless charging constructed within the electronic device and the receiver coil is formed in between an inner boundary and an outer boundary, the metal plate comprising:

a rounded concave edge,

wherein the metal plate is constructed to be attachable to the electronic device or the case,

wherein the metal plate is constructed to enable magnetic retention or attachment of the electronic device to a support having a magnet,

wherein the metal plate attached to the electronic device

or the case is ~~constructed~~ positioned ~~not~~ to substantially ~~block~~ allow magnetic waves ~~passing~~ to pass through the area formed by the inner boundary.

14. (Previously presented) The case of claim 13, wherein the metal plate does not overlap with an orthographic parallel projection of the area formed by the inner boundary onto a projection plane of the metal plate.

15. (Previously presented) The case of claim 13, wherein the inner boundary and the outer boundary are substantially circular.

16. (Previously presented) The case of claim 13, wherein the rounded concave edge, the inner boundary, and the outer boundary are substantially symmetrical with respect to a same line.

17. (Previously presented) The case of claim 16, wherein the rounded concave edge at least partially overlaps with an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate.

18. (Previously presented) The case of claim 16, wherein

the rounded concave edge is placed outside an orthographic parallel projection of the outer boundary onto a projection plane of the metal plate.

19. (Previously presented) The case of claim 13, wherein the metal plate is substantially rectangular with a first side having the rounded concave edge, and the metal plate has rounded corners,

wherein the metal plate has third and fourth sides that are substantially parallel to each other and has a second side that is substantially parallel to the first side.

20. (Previously presented) The case of claim 13, wherein the metal plate is substantially trapezoidal, wherein the rounded concave edge is formed on a shorter side of two parallel sides, and wherein the metal plate has rounded corners.

Electronic Patent Application Fee Transmittal	
Application Number:	15989033
Filing Date:	24-May-2018
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young Kim
Filer:	Heedong Chae
Attorney Docket Number:	7108PAT390
Filed as Small 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($)
Extension - 1 month with $0 paid	2251	1	100	100
Miscellaneous:				
RCE- 1ST REQUEST	2801	1	650	650
		Total in USD ($)		**750**

Electronic Acknowledgement Receipt	
EFS ID:	36050379
Application Number:	15989033
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young Kim
Customer Number:	107876
Filer:	Heedong Chae
Filer Authorized By:	
Attorney Docket Number:	7108PAT390
Receipt Date:	17-MAY-2019
Filing Date:	24-MAY-2018
Time Stamp:	20:08:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$750
RAM confirmation Number	052019INTEFSW20095400
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	7108PAT390-OA2-RCE-ptoform_EFS.pdf	1650391 69146550914b4807fce7ad5d7ac3ffa627e602ff	no	3
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	7108PAT390-OA2-Response_EFS.pdf	154010 05f27a1be30e9391a37e2fe9cac6729c30b339aa	no	5
Warnings:					
Information:					
3	Claims	7108PAT390-OA2-ClaimAmds_EFS.pdf	62346 2de6394d817acb32da28bef514734ec040e8e205	no	6
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	32290 105688aa5d56f52c988c1f960647fe011e0aec95	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1899037		

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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	)	
Dae-Young Kim	)	Confirmation No: 1068
	)	
Application No. 15/989,033	)	Group Art Unit: 2648
	)	
Filed: May 24, 2018	)	Examiner: TRANDAI, CINDY HUYEN
	)	
For: *MAGNETIC MOUNT FOR ELECTRONIC DEVICES*	)	Date of Office Action: January 17, 2019
	)	

IN RESPONSE TO OFFICE ACTION

Mailstop Amendment
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Examiner:

This is in response to the Office Action dated January 17, 2019 for which a response is due on April 17, 2019. A request for continued examination (RCE) and the appropriate fee accompanies this response. Additionally, a one-month extension fee is included herewith this response. Accordingly, this response is timely filed. Reconsideration and allowance of the patent application as amended are respectfully requested.

AMENDMENT

- **Amendments to the Claims:** Please amend the claims as described in the accompanying Claims Amendment.

No new matter was added in the amendment.

Remarks start on page 2 of this paper.

REMARKS

This is in response to the office action dated January 17, 2019. Applicant has amended the application as set forth above. Specifically, claims 1 and 13 are amended. Claims 1-20 are pending in this application. Applicant submits a request for continued examination (RCE) and respectfully requests reconsideration of the application.

Claim Rejections under 35 U.S.C. § 103

The Office rejected claims 1-11 and 13-20 under 35 U.S.C. § 103 as being unpatentable over Kaynar (US 2014.0354218) in view of Lee (US 2016/0241046) and Rothbaum (US 2011/0192857). Additionally, the Office rejected claim 12 under 35 U.S.C. § 103 as being unpatentable over Kaynar in view of Lee and Rothbaum and in further view of Richardson (US 2011/0228458). Applicant respectfully traverses these rejections.

With respect to claims 1 and 13, the Office cites Kaynar as teaching a case for an electronic device but admits that "Kaynar fails to mention integrated conductive charging is a receiver coil" and that "the receiver coil (310) is formed in between an inner boundary and an outer boundary" (Office Action, pp. 2-3). The Office cites Lee as curing the two deficiencies associated with Kaynar, but the Office admits that the combination of Kaynar and Lee "fails to mention the protective cover is a hard protective cover; and wherein the metal plate has a rounded concave edge" (Office Action, p. 3). To cure the deficiency associated with the combination of Kaynar and Lee, the Office cites Rothbaum," specifically Rothbaum FIG. 1 and ¶¶ 138-145, 247-248, as well as FIGS. 2-65) (Office Action, p. 3). Applicant respectfully disagrees that the combination of Kaynar, Lee, and Rothbaum teaches the structural features of claims 1 and 13 and results that flow therefrom.

With respect to the combination of Kaynar, Lee, and Rothbaum, Applicant respectfully submits that Rothbaum does not teach a metal plate has a rounded concave edge, particularly a metal plate having a rounded concave edge that is received in the recess such that the metal plate substantially allows magnetic waves to pass through the area formed by the inner boundary (specification, p. 12, ll. 11-18, claims 1 and 13, and FIGS. 1, 2, 4, and 6B). The metal plate taught in Rothbaum does not have a rounded concave edge, rather Rothbaum teaches its metal plate as being either a square, a rectangle, a circle, or a square with internal cutouts for other items (Rothbaum, FIGS. 1-65). This means that the metal plate in Rothbaum features

edges that are either a straight line (square and rectangle) or rounded convex (circle), the latter teaching against that of the rounded concave edge of the metal plate recited by claims 1 and 13. Due to Rothbaum's teachings, the shape of the metal plate disclosed therein would substantially block magnetic waves because the metal plate therein is constructed without considering how to prevent substantial blockage of magnetic waves in order for wireless charging to be effective. Since the Office admits that Kaynar and Lee (individually or combined) do not teach such a metal plate with a rounded concave edge and, based on the discussion above, Applicant submits here that Rothbaum does not either, the combination of Kaynar, Lee and Rothbaum cannot teach the features of claims 1 and 13. Accordingly, the above-cited references cannot predict the result of, and therefore their teachings are non-obvious to, the metal plate of claims 1 and 13 having a rounded concave edge such that the metal plate allows magnetic waves to pass through the area formed by the inner boundary (MPEP § 7106.02).

Additionally, Kaynar with Lee's teaching would change the principle operation of the Kaynar invention. "If the proposed modification or combination of the prior art would change the principle of operation of the prior art invention being modified, then the teachings of the references are not sufficient to render the claims *prima facie* obvious" (MPEP § 2143.01(VI) citing *In re Ratti*, 270 F.2d 810, 813 (CCPA 1959)). "A prior art reference ***must be considered in its entirety***, i.e., as a whole including portions that would lead away from the claimed invention" (MPEP § 2141.02(VI) citing *W.L. Gore & Associ., Inc. v. Garlock, Inc.*, 721 F.2d 1540 (Fed. Cir. 1983)). Applicant respectfully submits that Kaynar's teaching is directed to wired charging rather than wireless charging. As shown and taught by Kaynar, its case (Kaynar, 12) for an electronic device includes a PCB board (Kaynar, 22) having a wire (26) that connects the PCB board (Kaynar, 22) to a connector (Kaynar, 24) for wired electric charging (Kaynar, ¶¶ [0016]-[0017], and [0020] and FIG. 1). Furthermore, the case is mounted to an external housing (Kaynar, 14) that is used with a mounting system (Kaynar, 10, 110; and FIGS. 1 and 5, the latter's omitting depiction of wiring to power connector ¶ [0020]). Modifying Kaynar with Lee would cause a wireless power generation, a fundamental shift from wired to wireless power generation. Furthermore, such a modification would force the removal of Kaynar's mounting system (Kaynar, 10, 110) to prevent it from blocking magnetic waves and/or from having too large of a distance between the transmitter of the magnetic waves and the electronic device (Lee, FIG. 13). Without the mounting system (Kaynar, 10, 110), the Kaynar structure can no longer

mount to a variety of different surfaces, thus another principle operation of Kaynar (Kaynar, ¶¶ [0017] and [0020]) will be severely compromised or lost. Therefore, the teachings of Kaynar and Lee are not sufficient to render the claims *prima facie* obvious (MPEP § 2143.01(VI)).

Accordingly, based on at least any of the above reasons, Applicant respectfully requests the Office to withdraw its rejections to claims 1 and 13. Reconsideration of these claims is respectfully requested.

Dependent Claims

Applicant submits that the rejections of claims 1 and 13 under 35 U.S.C. § 103 have been overcome and the claims are now allowable. Claims 2-12 and 14-20 trace their respective dependencies to either claim 1 or claim 13 and, thus, claims 2-12 and 14-20 should be allowable as well.

///

///

CONCLUSION

The applicant believes that the rejections were obviated by the claims, and the application is now in condition for allowance: therefore, reexamination, reconsideration and allowance of the claims are respectively requested. If there are any additional comments or requirements from the examination, the applicant asks for a non-final office action.

Very truly yours,
Lucem, PC

Dated: May 17, 2019

By: /hc/
Heedong Chae
Regis. No. 69,240

660 S. Figueroa St. Suite 1200
Los Angeles, California 90017
Tel.: (213) 387-3630
Fax.: (213) 863-6332

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
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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.

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

Application Number	15989033
Filing Date	2018-05-24
First Named Inventor	Dae-Young KIM
Art Unit	2648
Examiner Name	TRANDAI, CINDY HUYEN
Attorney Docket Number	7108PAT390

U.S.PATENTS Remove

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
	1	8746448		2014-06-10	Bellace; Charles A.	

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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	20140321052	A1	2014-10-30	mophie, Inc.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

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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]
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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]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15989033
	Filing Date	2018-05-24
	First Named Inventor	Dae-Young KIM
	Art Unit	2648
	Examiner Name	TRANDAI, CINDY HUYEN
	Attorney Docket Number	7108PAT390

	1	"WizGear Universal Air Vent Magnetic Car Mount Holder with Fast Swift-Snap Technology for Smartphones and Mini Tablets, Black", https://www.amazon.com/WizGear-Universal-Swift-Snap-Technology-Smartphones/dp/B00PGJWYJ0/, downloaded 01/20/2016, 9pages.	
	2	"TechMatte MagGrip Air Vent Magnetic Universal Car Mount Holder for Smartphones including iPhone 7, 6, 6S, Galaxy S7, S7 Edge Black", https://www.amazon.com/TechMatte-Magnetic-Universal-Smartphones-including/dp/B00OJE1SG8/, downloaded 01/20/2016, 9pages.	
	3	Oma, "#1 Magnetic Car Air Vent Phone Mount Smartphone Stand", http://www.omalovesu.com/2015/05/1-magnetic-car-air-vent-phone-mount.html, downloaded 01/20/2017, 6pages	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	15989033
	Filing Date	2018-05-24
	First Named Inventor	Dae-Young KIM
	Art Unit	2648
	Examiner Name	TRANDAI, CINDY HUYEN
	Attorney Docket Number	7108PAT390

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	/hc/	Date (YYYY-MM-DD)	2019-05-31
Name/Print	HEEDONG CHAE	Registration Number	107876

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 record s.

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:	36173776
Application Number:	15989033
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young Kim
Customer Number:	107876
Filer:	Heedong Chae/Christine Noh
Filer Authorized By:	Heedong Chae
Attorney Docket Number:	7108PAT390
Receipt Date:	31-MAY-2019
Filing Date:	24-MAY-2018
Time Stamp:	18:04:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	7108PAT390-IDS_Transmittalletter.pdf	88071 7d6125eac253abb43f1fe8945d7f918b50e2f8ac	no	2

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	7108PAT390-IDS.pdf	1035515 a1dd3dd1ea429ad3c6f26968e522270ef928c3ad	no	4
Warnings:					
Information:					
3	Non Patent Literature	NPL1.pdf	3142096 33f174952a336bb5db067e44188e1457967498eb	no	9
Warnings:					
Information:					
4	Non Patent Literature	NPL2.pdf	2672431 f14b278cc7f63b6f03ce87bc4fcb2f655bb0e887	no	9
Warnings:					
Information:					
5	Non Patent Literature	NPL3.pdf	2404596 a0c0160796b9149814d925e56456eab4aadfc7ed	no	6
Warnings:					
Information:					
			Total Files Size (in bytes):	9342709	

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.

<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.
<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.
<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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	)	
Dae-Young Kim	)	Confirmation No: 1068
	)	
Application No. 15/989,033	)	Group Art Unit: 2648
	)	
Filed: May 24, 2018	)	Examiner: TRANDAI, CINDY HUYEN
	)	
For: *MAGNETIC MOUNT FOR ELECTRONIC DEVICES*	)	Los Angeles, CA
	)	

Information Disclosure Statement

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

Commissioner:

Listed on the accompanying IDS Form PTO/SB/08a are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.97(h), the filing of the accompanying IDS Form PTO/SB/08a shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to the patentability of this application as defined in 37 C.F.R. § 1.56(b). Additionally, in case a listed document is provided with a publication date, the provided publication date should not be construed as an admission of the factual publication date of the listed document. Additionally, in case a facsimile of the listed document is provided, any dates provided in the facsimile of the listed document should not be construed as an admission of the factual publication date of the listed document. Additionally, in case a listed document does not have (or is not provided with) a publication date, the listed document should not be construed as an admission that (i) the listed document is prior art to this application and/or (ii) the information contained in the listed document was published before the filing date or priority date of this application.

Applicant reserves the right to establish the patentability of the claimed invention set forth in this application over any of the information provided herewith, and/or to prove that this

information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Very truly yours,

Dated: 5/31, 2019

/hc/

Heedong Chae
Regis. No. 69,240

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017
Tel.: (213) 387-3630
Fax.: (213) 863-6332

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

107876 7590 06/17/2019

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

EXAMINER
TRANDAI, CINDY HUYEN

ART UNIT	PAPER NUMBER
2648	

DATE MAILED: 06/17/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

TITLE OF INVENTION: MAGNETIC MOUNT FOR ELECTRONIC DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	09/17/2019

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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

107876 7590 06/17/2019

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

TITLE OF INVENTION: MAGNETIC MOUNT FOR ELECTRONIC DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	09/17/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRANDAI, CINDY HUYEN	2648	455-575800

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 03-09 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_____
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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). 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

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

107876 7590 06/17/2019

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

EXAMINER	
TRANDAI, CINDY HUYEN	
ART UNIT	PAPER NUMBER
2648	

DATE MAILED: 06/17/2019

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 30 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. 15/989,033	Applicant(s) Kim, Dae-Young	
	Examiner CINDY H TRANDAI	Art Unit 2648	AIA (FITF) Status Yes

-- 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 5/17/2019.
   ☐ 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 1-20 . 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 areply 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. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Cindy Trandai/
Primary Examiner, Art Unit 2648

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	Art Unit
	CINDY H TRANDAI	2648

CPC							
Symbol						Type	Version
H04B	/	1	/	3888		F	2013-01-01
A45C	/	11	/	00		I	2013-01-01
H02J	/	7	/	025		I	2013-01-01
H02J	/	50	/	10		I	2016-02-01
H02J	/	7	/	0042		I	2013-01-01
A45C	/	13	/	1069		I	2013-01-01
H04B	/	1	/	3877		A	2013-01-01
A45C	/	2011	/	002		A	2013-01-01
A45C	/	2011	/	003		A	2013-01-01

CPC Combination Sets								
Symbol					Type	Set	Ranking	Version
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/Cindy Trandai/ Primary Examiner, Art Unit 2648	05 June 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2A

U.S. Patent and Trademark Office — Part of Paper No.: 20190609

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	Art Unit
	CINDY H TRANDAI	2648

INTERNATIONAL CLASSIFICATION					
CLAIMED					
A45C	/	13	/	002	
H04B	/	1	/	3888	

NON-CLAIMED					
	/		/		

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE (Assistant Examiner)	(Date)	Total Claims Allowed: 20	
/Cindy Trandai/ Primary Examiner, Art Unit 2648 (Primary Examiner)	05 June 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2A

U.S. Patent and Trademark Office — Part of Paper No.: 20190609

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	Art Unit
	CINDY H TRANDAI	2648

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19										
	2		11		20										
	3		12												
	4		13												
	5		14												
	6		15												
	7		16												
	8		17												
	9		18												

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/Cindy Trandai/ Primary Examiner, Art Unit 2648	05 June 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2A

U.S. Patent and Trademark Office — Part of Paper No.: 20190609

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	Art Unit
	CINDY H TRANDAI	2648

CPC - Searched*		
Symbol	**Date**	**Examiner**
A45C13/002	07/23/2018	ct
H04B1/3888	06/05/2019	ct

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093	07/23/2018	ct

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
Search on USPAT, US-PGPUB, JPO, EPO and DERWENT in EAST	07/23/2018	ct
Update search in EAST	01/10/2019	ct
Search on IP.com and Google Patent	06/05/2019	ct
Update search in EAST	06/05/2019	ct

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	Assignee search in EAST	07/23/2018	ct
	Inventor search in EAST	06/09/2019	ct

/CT/ Primary Examiner, Art Unit 2647	/CT/ Primary Examiner, Art Unit 2647

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/989,033	Kim, Dae-Young
	Examiner	**Art Unit**
	CINDY H TRANDAI	2648

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/23/2018	01/10/2019	06/05/2019						
	1	✓	✓	=						
	2	✓	✓	=						
	3	✓	✓	=						
	4	✓	✓	=						
	5	✓	✓	=						
	6	✓	✓	=						
	7	✓	✓	=						
	8	✓	✓	=						
	9	✓	✓	=						
	10	✓	✓	=						
	11	✓	✓	=						
	12	✓	✓	=						
	13	✓	✓	=						
	14	✓	✓	=						
	15	✓	✓	=						
	16	✓	✓	=						
	17	✓	✓	=						
	18	✓	✓	=						
	19	✓	✓	=						
	20		✓	=						

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"15989033"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 16:57
S2	75	(back or rear) near (case or cover) same magnetic$3 metal plate	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 17:05
S3	4	("20110228458" | "8746448").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 17:11
S4	113	(back or rear) near (panel) same magnetic$3 metal	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:04
S5	575	(back or rear) near (panel) same metal near plate	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:05
S6	10	(back or rear) near (panel) same metal near plate same attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:05
S7	6	(back or rear) near (case or cover) same metal near plate same attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:07
S8	17	("3990848" | "4647428" | "4808347" | "5342584" | "5938076").PN. OR ("6632405").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2018/07/13 19:08
S9	39	(back or rear) near (case or cover) same metal near plate and attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:12
S10	2	"15452342"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:13
S11	30	("20100081377" | "20110192857" | "20140299739" | "20140354218" | "20150320168" | "20160051019" | "20160072933" | "20160260532" | "4319097" | "5992807" | "7374142" | "9379759" | "9616821").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/13 19:17
S12	5652	magnetic near plate same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:09

S13	10	magnetic near plate with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:10
S14	2	magnet near plate with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:10
S15	3	magnetic near plate near magnetic with (rear or back) near cover same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:13
S16	30	magnetic near plate near magnetic with (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:13
S17	47	magnetic near plate near magnetic same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:15
S18	17	S17 not S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:15
S19	0	magnetic near plate near metal same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:16
S20	10	magnetic near plate same attach$5 same (rear or back) near cover	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:17
S21	2	magnetic near plate same attach$5 same (rear or back) near case	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:18
S22	8	magnetic near plate same attach$5 same (rear or back) near housing	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:18
S23	29	magnetic near plate same coil same (rear or back) near (cas$3 or housing or frame or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:22
S24	2344	coil same magnet$3 same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:27
S25	33	coil same magnet$3 near plate same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:28
S26	2370	coil same1 magnet$3 same (rear or back) near (casing or housing or cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:29
S27	11542	wireless near charg$3 same coil	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2018/07/19 15:31

			DERWENT			
S28	160	wireless near charg$3 and coil (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 15:31
S29	1	"15783733"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 16:36
S30	18	("20150137742" | "20120274271" | "20140295199" | "20130257367" | "20160141099" | "20070217163" | "20160079671" | "20150048752" | "20140247188").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:03
S31	1	wireless near charg$3 and magnetic near plate same5 (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:11
S32	89	wireless near charg$3 and magnet same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/19 17:16
S33	2	(first or second) near magnet and coil and (US "20150214749" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 11:11
S34	13	("8669678" | "8901881").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:09
S35	42	concave near magnet same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:11
S36	6452	magnet same receiv$3 near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:31
S37	119	magnet same receiv$3 near coil same recess	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:31
S38	804	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:40
S39	28	magnet same receiv$3 near coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 12:41
S40	39	wireless adj3 (charg$3 or power) and magnet near plate same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:13
S41	1	receiver adj coil and transmit$5 adj coil and magnet and (US "20160003270" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:25

S42	1	receiver adj coil and magnet and (US "20160003270" A1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/20 16:39
S43	70	(partovi afshin).inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 11:58
S44	2	US "20050115916" A1	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 13:57
S45	28049	(H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:46
S46	834	(A45C13/002).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:47
S47	6456	magnet same receiv$3 near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S48	347	S47 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S49	1	S45 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:48
S50	804	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:49
S51	30	S50 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:49
S52	170	(spigen korea).as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:50
S53	1	receiv$3 near coil and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:50
S54	1	metal near plate same magnet$3 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:53
S55	2	metal near plate and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2018/07/23 16:53
S56	1	"15989033"	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2019/01/08 17:06

			DERWENT			
S57	30644	(H02J7/025 OR H02J5/005 OR H04B5/0037 OR H04B5/0081 OR H04B5/0093).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S58	920	(A45C13/002).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S59	1	S57 and S58	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S60	851	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S61	30	S60 and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:07
S62	30	S60 and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:24
S63	42	(back or rear) near (case or cover) same metal near plate and attach$5 magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 17:40
S64	1	((back or rear) near (case or cover) same metal near plate same attach$5 magnet same coil).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 18:39
S65	5599	(H04B1/3888)).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:12
S66	851	magnet same coil same (rear or back) near (cover or casing or housing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:13
S67	2	S65 and S66	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:13
S69	10281	(H02J50/10 OR).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:15
S70	12	S66 and S69	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/08 19:15
S75	10	magnet same support ring same mobile near device	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:39
S76	4	magnet same support ring same inside	US-PGPUB;	WITH	ON	2019/01/09

		back near (cover or case)	USPAT; EPO; JPO; DERWENT			08:46
S77	4	magnet inside back near (cover or case) same support ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:47
S78	4	magnet same inside back near (cover or case) same support ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:47
S79	0	magnet same metal near plate same back near (cover or case) same support ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:48
S80	6	magnet same metal near plate same back near (cover or case) same support	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:48
S81	0	"87466448"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:59
S82	16	"8746448"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 08:59
S83	18	("20090219677" | "20100222118" | "20110011906" | "20110266316" | "20110303709" | "20120011888" | "20120031937" | "20120063066" | "20140084034" | "8550317" | "8672374" | "8746448" | "8833820").PN. OR ("8887970").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2019/01/09 09:05
S84	3	US "9486910" B2 and magnet	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:09
S85	35	("20090270050" | "20100222118" | "20110266316" | "20110284599" | "20120031937" | "20120326003" | "20130146625" | "20130313845" | "20140084034" | "5762305" | "7717483" | "8186642" | "8480144" | "8550317" | "8672374" | "8887970" | "9033384" | "9137915" | "D376308" | "D471400" | "D616285" | "D651205" | "D674380" | "D681420" | "D693818" | "D713140" | "D716287" | "D729787").PN. OR ("9486910").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2019/01/09 09:12
S86	41	magnet same metal near plate same (back or rear) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:19
S87	118	magnet and metal near plate same (back or rear) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:44

S88	77	S87 not S86	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:45
S89	2	"15452342"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 09:48
S90	6	("20140321052" | "8746448" | "20110228458").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 10:58
S91	74	magnet and metal near plate same (protect$5 or hard) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:02
S92	984	metal near plate same (protect$5 or hard) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:18
S93	5599	(H04B1/3888).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:19
S94	10281	(H02J50/10 OR).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:19
S95	15801	S93 or S94	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:19
S96	12	S92 and S95	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 11:19
S97	44	shape metal near plate same (protect$5 or hard) near (cover or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:16
S98	22	metal near plate same (protect$5 or hard) near (cover or case) same coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:17
S99	4	metal near plate same (protect$5 or hard) near (cover or case) and (receiv$3 or transmit$4) near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:21
S100	1258	metal near plate and (receiv$3 or transmit$4) near coil	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:24
S101	103	S95 and S100	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:24
S102	103	S101 not S97	US-PGPUB; USPAT; EPO; JPO;	WITH	ON	2019/01/09 12:25

			DERWENT			
S103	102	S101 not S96	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:25
S104	102	S101 not S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 12:25
S105	8889814	"20" not "19"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 13:11
S106	6	("20080136369" | "20110050161" | "20110192857").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 13:29
S111	243	"7239110"	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 16:26
S112	9	mobile near device same case near cover (hard or soft)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 16:47
S113	162	device same case near cover (hard or soft)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/09 16:48
S114	3	US "20120151973" A1	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/10 09:05
S115	3	(metal or magnet) adj plate with (rear or back) near (cover or case) same1 coil near around	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/01/10 09:47
S116	3	"20140321052"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/05 13:22
S117	2	("8746448").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/05 13:23
S118	27	("20030213886" | "20090283559" | "20100222118" | "20110266313" | "20110266316" | "20120048873" | "20120063066" | "3938166" | "5383091" | "8428664").PN. OR ("8746448").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2019/06/05 13:24
S119	57	magnet$5 near metal same antenna same housing	US-PGPUB; USPAT;	WITH	ON	2019/06/05 13:54

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S120	868	magnet$5 near metal same mount	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/05 14:28
S121	27	S120 and antenna	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/05 14:28
S122	0	metal around antennasame (protective near cover or cover or housing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/05 14:39
S123	542	metal around antenna same (protective near cover or cover or housing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/05 14:39
S124	94	metal with around near antenna same (protective near cover or cover or housing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/05 14:40
S125	12	(metal or magnet) adj plate with (rear or back) near (cover or case) same1 coil near (receiv$3 or transmit$5 or antenna)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/06/05 15:23
S126	103	(metal or magnet) adj plate with (rear or back or protective) near (cover or case) same (antenna or coil)	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/06/05 15:27
S127	6036	(H04B1/3888).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/06/09 10:22
S128	983	(A45C13/002).CPC.	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2019/06/09 10:23
S129	687	(kim dae$1young).inv.	US-PGPUB; USPAT; USOCR; FPRS;	WITH	ON	2019/06/09 10:34

			EPO; JPO; DERWENT; IBM_TDB			
S130	88	S129 and metal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2019/06/09 10:34

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S71	1	((back or rear) near (case or cover) same metal near plate same attach$5 magnet same coil).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 18:39
S72	0	(metal near plate same magnet same coil same (block$3 or prevent$3) ner (signal or wave)).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 18:45
S73	3	(metal near plate same (magnet or electromagnetic) near (signal or wave) same coil).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 18:46
S74	28	(rear near (cover or case) same (magnet or electromagnetic) near (signal or wave)).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/08 19:04
S107	79	(metal near plate same magnet same coil).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:10
S108	86	(metal near plate same magnet same (cover or case)).clm.	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:11
S109	2857114	"20" not "19"	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:12
S110	70	S108 not S107	US-PGPUB; USPAT	WITH	ON	2019/01/09 13:12

6/9/2019 10:37:48 AM
C:\Users\ctrandai\Documents\EAST\Workspaces\15989033.wsp

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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	15989033
Filing Date	2018-05-24
First Named Inventor	Dae-Young KIM
Art Unit	2648
Examiner Name	TRANDAI, CINDY HUYEN
Attorney Docket Number	7108PAT390

U.S.PATENTS Remove

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
	1	8746448		2014-06-10	Bellace; Charles A.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

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	20140321052	A1	2014-10-30	mophie, Inc.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

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							

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NON-PATENT LITERATURE DOCUMENTS Remove

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]

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CT/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15989033
	Filing Date	2018-05-24
	First Named Inventor	Dae-Young KIM
	Art Unit	2648
	Examiner Name	TRANDAI, CINDY HUYEN
	Attorney Docket Number	7108PAT390

	1	"WizGear Universal Air Vent Magnetic Car Mount Holder with Fast Swift-Snap Technology for Smartphones and Mini Tablets, Black", https://www.amazon.com/WizGear-Universal-Swift-Snap-Technology-Smartphones/dp/B00PGJWYJ0/, downloaded 01/20/2016, 9pages.
	2	"TechMatte MagGrip Air Vent Magnetic Universal Car Mount Holder for Smartphones including iPhone 7, 6, 6S, Galaxy S7, S7 Edge Black", https://www.amazon.com/TechMatte-Magnetic-Universal-Smartphones-including/dp/B00OJE1SG8/, downloaded 01/20/2016, 9pages.
	3	Oma, "#1 Magnetic Car Air Vent Phone Mount Smartphone Stand", http://www.omalovesu.com/2015/05/1-magnetic-car-air-vent-phone-mount.html, downloaded 01/20/2017, 6pages

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Cindy Trandai/ (06/05/2019)	Date Considered	06/05/2019

*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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CT/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15989033
	Filing Date	2018-05-24
	First Named Inventor	Dae-Young KIM
	Art Unit	2648
	Examiner Name	TRANDAI, CINDY HUYEN
	Attorney Docket Number	7108PAT390

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	/hc/	Date (YYYY-MM-DD)	2019-05-31
Name/Print	HEEDONG CHAE	Registration Number	107876

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.**

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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 record s.

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.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

107876 7590 08/14/2019

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

EXAMINER	
TRANDAI, CINDY HUYEN	

ART UNIT	PAPER NUMBER
2648	

NOTIFICATION DATE	DELIVERY MODE
08/14/2019	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):

hdchae@lucemlaw.com
patent@lucemlaw.com
iplaw.advocate@gmail.com

PTOL-90A (Rev. 04/07)

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

Application No. : 15989033
Applicant : Kim
Filing Date : 05/24/2018
Date Mailed : 08/14/2019

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

A copy of this notice MUST be returned with the reply. Please address response to "Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

/Anita Grimmage/
Publication Branch
Office of Data Management
(571) 272-4200

Application No. 15989033

NON-COMPLIANT ILLUSTRATIONS IN SPECIFICATION OR CLAIMS

☐ **The illustration(s) in the location(s) referenced below do not come within the exceptions of 37 CFR 1.58(a). Please delete the illustration(s) from the specification or claims, provided the illustration(s) as part of the formal drawing(s) in accordance with 37 CFR 1.84, and amend the specification to provide a brief description of the drawings in accordance with 37 CFR 1.74. Please see the following item(s):**

- ☐ Specification document coded dated , page(s) .
- ☐ Claims document coded dated , claim(s) .
- ☐ Amendment document coded dated .
- ☐ Other: .

☒ **The chemical formula(s), mathematical formula(s), or table(s) in the location(s) referenced below contain shading (color/grayscale) and therefore do not comply with 37 CFR 1.52 and do not come within the exceptions of 37 CFR 1.58(a). Please delete chemical formula(s), mathematical formula(s), or table(s) with shading from the specification or claims, provide them as formal color drawing(s) in accordance with 37 CFR 1.84, including petition, fee, and amendment in accordance with 37 CFR 1.84(a)(2), and amend the specification to provide a brief description of the drawings in accordance with 37 CFR 1.74. Please see the following item(s):**

- ☒ Specification document coded SPEC dated 05/24/2018, page(s) 16.
- ☐ Claims document coded dated , claim(s) .
- ☐ Amendment document coded dated .
- ☐ Other: .

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

107836 7890 06/17/2019
Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

TITLE OF INVENTION: MAGNETIC MOUNT FOR ELECTRONIC DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	09/17/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRANDAL, CINDY HUYEN	2648	455-575800

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 03-09 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 Heedong Chae
2 Lucem, PC
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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: SPIGEN KOREA CO., LTD.

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

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

4a. Fees submitted: ☒ Issue Fee ☒ Publication Fee (if required) ☐ Advance Order - # of Copies

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No.

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 /Heedong Chae/ Date 9/17/2019

Typed or printed name Heedong Chae Registration No. 69240

Electronic Patent Application Fee Transmittal

Application Number:	15989033
Filing Date:	24-May-2018
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young Kim
Filer:	Heedong Chae/Christine Noh
Attorney Docket Number:	7108PAT390

Filed as Small 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:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**500**

Electronic Acknowledgement Receipt	
EFS ID:	37193478
Application Number:	15989033
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MAGNETIC MOUNT FOR ELECTRONIC DEVICES
First Named Inventor/Applicant Name:	Dae-Young Kim
Customer Number:	107876
Filer:	Heedong Chae/Christine Noh
Filer Authorized By:	Heedong Chae
Attorney Docket Number:	7108PAT390
Receipt Date:	17-SEP-2019
Filing Date:	24-MAY-2018
Time Stamp:	18:53:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$500
RAM confirmation Number	E20199GI53285914
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	7108PAT390-Notice_Response_Transmittal_EFS.pdf	1798606 9b6a71964b4e466a8602053485ae501ba920709f	no	5
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	7108PAT390-IssueFeeTransmittal.pdf	450761 3842cad0d2e2a53d4267dfe9514fd149b18bb655	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30144 250a7031c321227bdba688cf7f5d868f0b8fdc18	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2279511		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Dae-Young Kim	)	Confirmation No: 1068
Application No. 15/989,033	)	Group Art Unit: 2648
Filed: May 24, 2018	)	Examiner: TRANDAI, CINDY HUYEN
For: *MAGNETIC MOUNT FOR ELECTRONIC DEVICES*	)	Date of Office Action: August 14, 2019

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam:

The Notice to File Corrected Application Papers ("Notice") mailed on August 14, 2019 stated the specification (pg. 16) contained a table with shading that does not comply with 37 C.F.R. § 1.52. In response to (and directed by) the Notice, Applicant has corrected the specification with the Specification Amendment that begins on page 2 of this paper. In addition, Applicant has attached a copy of the Notice in accordance with the requirement set forth in the Notice.

Therefore, Applicant respectfully requests the amended specification to be entered and accepted.

No new matter was added in the amendment.

Very truly yours,

Dated: September 10, 2019

By: /hc/

Heedong Chae
Regis. No. 69,240
Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, California 90017
Tel.: (213) 387-3630
Fax.: (213) 863-6332

AMENDMENTS TO THE SPECIFICATION

Please replace Table 1 on page 16 with the replacement table shown below.

~~Table 1. Wireless Charging~~

~~[redacted]~~	~~No Case~~	~~FIG. 4B~~	~~FIG. 4C~~
~~Charging Current Range~~	~~170-250 mA~~	~~90-230 mA~~	~~40-180 mA~~
~~Avg Charging Current~~	~~210 mA~~	~~190 mA~~	~~80 mA~~

Table 1. Wireless Charging

	No Case	FIG. 4B	FIG. 4C
Charging Current Range	170-250 mA	90-230 mA	40-180 mA
Avg Charging Current	210 mA	190 mA	80 mA

No new matter was added in the amendment.

ATTACHMENT

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

Application No. : 15989033
Applicant : Kim
Filing Date : 05/24/2018
Date Mailed : 08/14/2019

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

A copy of this notice MUST be returned with the reply. Please address response to "Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

/Anita Grimmage/
Publication Branch
Office of Data Management
(571) 272-4200

Application No. 15989033

NON-COMPLIANT ILLUSTRATIONS IN SPECIFICATION OR CLAIMS

☐ **The illustration(s) in the location(s) referenced below do not come within the exceptions of 37 CFR 1.58(a). Please delete the illustration(s) from the specification or claims, provided the illustration(s) as part of the formal drawing(s) in accordance with 37 CFR 1.84, and amend the specification to provide a brief description of the drawings in accordance with 37 CFR 1.74. Please see the following item(s):**

- ☐ Specification document coded dated , page(s) .
- ☐ Claims document coded dated , claim(s) .
- ☐ Amendment document coded dated .
- ☐ Other: .

☒ **The chemical formula(s), mathematical formula(s), or table(s) in the location(s) referenced below contain shading (color/grayscale) and therefore do not comply with 37 CFR 1.52 and do not come within the exceptions of 37 CFR 1.58(a). Please delete chemical formula(s), mathematical formula(s), or table(s) with shading from the specification or claims, provide them as formal color drawing(s) in accordance with 37 CFR 1.84, including petition, fee, and amendment in accordance with 37 CFR 1.84(a)(2), and amend the specification to provide a brief description of the drawings in accordance with 37 CFR 1.74. Please see the following item(s):**

- ☒ Specification document coded SPEC dated 05/24/2018, page(s) 16.
- ☐ Claims document coded dated , claim(s) .
- ☐ Amendment document coded dated .
- ☐ Other: .

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	1068

107876 7590 09/26/2019

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

EXAMINER	
TRANDAI, CINDY HUYEN	

ART UNIT	PAPER NUMBER
2648	

NOTIFICATION DATE	DELIVERY MODE
09/26/2019	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):

hdchae@lucemlaw.com
patent@lucemlaw.com
iplaw.advocate@gmail.com

Response to Rule 312 Communication	Application No. 15/989,033	Applicant(s)
	Examiner	Art Unit

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

1. ☒ The amendment filed on *17 September 2019* under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

Kimberly Payne

PUBLISHING DIVISION

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15989033
Filing Date	2018-05-24
First Named Inventor	Dae-Young KIM
Art Unit	2648
Examiner Name	TRANDAI, CINDY HUYEN
Attorney Docket Number	7108PAT390

U.S.PATENTS Remove

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
	1	8746448		2014-06-10	Bellace; Charles A.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

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
Change(s) applied to document, /A.E.G./ 8/12/2019	1	20140321052	A1	2014-10-30	~~mophie, Inc.~~ Diebel, et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

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							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

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]

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CT/

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/989,033	11/05/2019	10469119	7108PAT390	1068

107876 7590 10/16/2019

Lucem, PC
660 S Figueroa St. Suite 1200
Los Angeles, CA 90017

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 0 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):

Dae-Young Kim, Seoul, KOREA, REPUBLIC OF;
SPIGEN KOREA 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.

IR103 (Rev. 10/09)

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

ACKNOWLEDGEMENT OF LOSS OF ENTITLEMENT TO ENTITY STATUS DISCOUNT

APPLICATION #	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET #	REQUEST ID
15/989,033	05/24/2018	Dae-Young Kim	7108PAT390	80173

The entity status change request below filed through Patent Center on 05/04/2023 has been accepted.

Certifications

APPLICANT CHANGING TO REGULAR UNDISCOUNTED FEE STATUS

Signature

I certify, in accordance with 37 CFR 1.4(d)(4), that I am one of the signatories making the entity status change.

Signature	**Name**	**Registration #**
/Heedong Chae/	Heedong Chae	69240

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI1490152

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Spigen, Korea Co., Ltd.	12/12/2025

RECEIVING PARTY DATA

Company Name:	Intellectual Discovery Co. Ltd.
Street Address:	7th Floor, 419 Teheran-ro
Internal Address:	Gangnam-gu
City:	Seoul
State/Country:	KOREA, REPUBLIC OF
Postal Code:	06160

PROPERTY NUMBERS Total: 11

Property Type	Number
Application Number:	62511280
Application Number:	63650790
Application Number:	19275610
Patent Number:	10469119
Patent Number:	11101838
Patent Number:	11863223
Patent Number:	12052044
Patent Number:	12081257
Patent Number:	12388482
Patent Number:	12224788
Patent Number:	12191902

CORRESPONDENCE DATA

Fax Number:

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

Phone: +8(210)262-74193
Email: albert.lee@aju-ipg.com
Correspondent Name: Albert Lee
Address Line 1: 1800 Diagonal Road
Address Line 2: Suite 600

Address Line 4:	Alexandria, VIRGINIA 22314
NAME OF SUBMITTER:	Albert Lee
SIGNATURE:	/Albert Lee/
DATE SIGNED:	12/19/2025
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2
source=Patent Purchase Agreement (Spigen X ID)_251212#page1.tiff
source=Patent Purchase Agreement (Spigen X ID)_251212#page2.tiff

EXHIBIT B

PATENT ASSIGNMENT AGREEMENT

WHEREAS, **Spigen, Korea Co., Ltd.**, having a place of business at 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, Republic of Korea (hereinafter "SELLER") is the sole and exclusive owner of certain United States and/or foreign patents and/or patent applications listed in Schedule A annexed hereto (collectively referred to as the "Patents"); and

WHEREAS **Intellectual Discovery Co. Ltd,** having a place of business at 7th Fl., 419, Teheran-ro, Gangnam-gu, Seoul, 06160, Republic of Korea (hereinafter "PURCHASER") is desirous of acquiring the right, title and interest in, to and under the said Patents (and all foreign counterparts and related foreign patents).

Now, Therefore,

For good and valuable consideration, the receipt of which is hereby acknowledged, SELLER does hereby sell, assign, transfer and set over to PURCHASER, the Patents aforesaid, and any inventions claimed in said Patent, any reissue or reissues of said Patents already granted and which may be granted, any certificates of reexamination already granted and which may be granted the same to be held and enjoyed by PURCHASER for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said Patents are or may be granted, reissued or extended as fully and entirely as the same would have been held and enjoyed by SELLER, if this assignment and sale had not been made; together with all claims for damages by reason of past, current, and future infringement and/or provisional rights under said Patents, with the right to sue for, and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives.

And, SELLER, hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States on said inventions to PURCHASER as assignee of the entire interest.

In Witness Whereof, SELLER has executed this Assignment by its duly authorized representative.

SELLER

By: _____

Name: Daeyoung Kim

Title: CEO

Date: 12-12-2025

Schedule A

List of Patents

No.	Country	Application No.	Filed	Patent No.	Issued
1	KR	2024-0066976	2024.05.23	-	-
2	KR	2024-0075462	2024.06.11	-	-
3	US	62-511280	2017.05.25	-	-
4	US	15-989033	2018.05.24	10469119	2019.11.05
5	US	16-581596	2019.09.24	11101838	2021.08.24
6	US	17-443183	2021.07.22	11863223	2024.01.02
7	US	18-518265	2023.11.22	12052044	2024.07.30
8	US	18-518303	2023.11.22	12081257	2024.09.03
9	US	18-535674	2023.12.11	12388482	2025.08.12
10	US	18-660932	2024.05.10	12224788	2025.02.11
11	US	63-650790	2024.05.22	-	-
12	US	18-768599	2024.07.10	12191902	2025.01.07
13	US	19-275610	2025.07.21	-	-

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI1609538

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Intellectual Discovery Co., Ltd	02/13/2026

RECEIVING PARTY DATA

Company Name:	Magnova, LLC
Street Address:	2021 Guadalupe Street
Internal Address:	Dobie Center, Suite 260
City:	Austin
State/Country:	TEXAS
Postal Code:	78705

PROPERTY NUMBERS Total: 11

Property Type	Number
Application Number:	62511280
Application Number:	63650790
Application Number:	19275610
Patent Number:	10469119
Patent Number:	11101838
Patent Number:	11863223
Patent Number:	12052044
Patent Number:	12081257
Patent Number:	12388482
Patent Number:	12224788
Patent Number:	12191902

CORRESPONDENCE DATA

Fax Number:

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

Phone: 2122028191
Email: albert.lee@aju-ipg.com
Correspondent Name: Mr. Albert Lee
Address Line 1: 1800 Diagonal Road
Address Line 2: Suite 600

Address Line 4:	Alexandria, VIRGINIA 22314
NAME OF SUBMITTER:	Albert Lee
SIGNATURE:	/Albert Lee/
DATE SIGNED:	02/14/2026
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2
source=Patent Assignment Agreement - ID to Magnova 20260213#page1.tiff
source=Patent Assignment Agreement - ID to Magnova 20260213#page2.tiff

EXHIBIT B

PATENT ASSIGNMENT AGREEMENT

WHEREAS, **Intellectual Discovery Co. Ltd**, having a place of business at 33rd Fl., 152, Teheran-ro, Gangnam-gu, Seoul, 06236, Republic of Korea (hereinafter "SELLER") is the sole and exclusive owner of certain United States and/or foreign patents and/or patent applications listed in Schedule A annexed hereto (collectively referred to as the "Patents"); and

WHEREAS **Magnova, LLC**, having a place of business at 2021 Guadalupe Street, Dobie Center, Suite 260, AUSTIN, 78705, U.S.A (hereinafter "PURCHASER") is desirous of acquiring the right, title and interest in, to and under the said Patents (and all foreign counterparts and related foreign patents).

Now, Therefore,

For good and valuable consideration, the receipt of which is hereby acknowledged, SELLER does hereby sell, assign, transfer and set over to PURCHASER, the Patents aforesaid, and any inventions claimed in said Patent, any reissue or reissues of said Patents already granted and which may be granted, any certificates of reexamination already granted and which may be granted the same to be held and enjoyed by PURCHASER for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said Patents are or may be granted, reissued or extended as fully and entirely as the same would have been held and enjoyed by SELLER, if this assignment and sale had not been made; together with all claims for damages by reason of past, current, and future infringement and/or provisional rights under said Patents, with the right to sue for, and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives.

And, SELLER, hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States on said inventions to PURCHASER as assignee of the entire interest.

In Witness Whereof, SELLER has executed this Assignment by its duly authorized representative.

SELLER

By: _____

Name: Dongsuk Bae

Title: Executive Vice President (IP Head)

Date: Feb 13, 2026

Schedule A

List of Patents

No.	Country	Application No.	Filed	Patent No.	Issued
1	KR	2024-0066976	2024.05.23	-	-
2	KR	2024-0075462	2024.06.11	-	-
3	US	62-511280	2017.05.25	-	-
4	US	15-989033	2018.05.24	10469119	2019.11.05
5	US	16-581596	2019.09.24	11101838	2021.08.24
6	US	17-443183	2021.07.22	11863223	2024.01.02
7	US	18-518265	2023.11.22	12052044	2024.07.30
8	US	18-518303	2023.11.22	12081257	2024.09.03
9	US	18-535674	2023.12.11	12388482	2025.08.12
10	US	18-660932	2024.05.10	12224788	2025.02.11
11	US	63-650790	2024.05.22	-	-
12	US	18-768599	2024.07.10	12191902	2025.01.07
13	US	19-275610	2025.07.21	-	-