# 505016334 07/23/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5063082

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
SEONG CHEOL HONG	07/06/2018
JAE KYOUM KIM	07/17/2018
KI YOUNG MIN	07/06/2018
SE MIN PARK	07/06/2018
MYUNG SIK CHUN	07/16/2018
GYOO TAEK LEE	07/06/2018
OH YEOUL KWON	07/06/2018
HYUN CHUL PARK	07/18/2018

### **RECEIVING PARTY DATA**

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State/Country:	KOREA, REPUBLIC OF
Postal Code:	37859

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16072143

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 097358-0065

NAME OF SUBMITTER: HOSANG LEE

SIGNATURE: /Hosang Lee/

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PATENT REEL: 046432 FRAME: 0789

# COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

# METHOD FOR REFINING MAGNETIC DOMAINS OF GRAIN-ORIENTED ELECTRICAL STEEL PLATES, AND APPARATUS THEREFOR

which	application is:
	attached, or
⊠ PCT/I	United States application number or PCT international application number _ KR2016/015161_ filed on <u>December 23, 2016_</u> .
m) i	

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

In the event that the filing date and/or application number are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request the registered practitioners of **McDermott Will & Emery LLP**, associated with the Customer Number **20277**, to insert above the filing date and/or application number of the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Page 1 of 3

### **ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign to

#### **POSCO**

having an address at (Goedong-dong) 6261, Donghaean-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do 37859, Republic of Korea

hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignee, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

I hereby covenant that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Page 2 of 3

Legal name of FIRST inventor	
HONG, Seong Cheol	
First inventor's signature	Date
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Legal name of SECOND inventor	
KIM, Jae Kyoum	되는데 되고 한잔에 그릇할 본들이 본네
Second inventor's signature	Date
Second inventor's signature	ing the state of t
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Legal name of THIRD inventor	
MIN, Ki Young	
Third inventor's signature	Date
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Legal name of FOURTH inventor	
PARK, Se min	
Fourth inventor's signature	Date
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Tomi name of PIPTU Inventor	
Legal name of FIFTH inventor CHUN, Myung Sik	
	Date
CHUN, Myung Sik	Date
CHUN, Myung Sik Fifth inventor's signature	Date
CHUN, Myung Sik Fifth inventor's signature  Legal name of SIXTH inventor	Date Date
CHUN, Myung Sik Fifth inventor's signature  Legal name of SIXTH inventor LEE, Gyoo Taek Sixth inventor's signature	Date
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CHUN, Myung Sik  Fifth inventor's signature  Legal name of SIXTH inventor  LEE, Gyoo Taek  Sixth inventor's signature	Date
CHUN, Myung Sik  Fifth inventor's signature  Legal name of SIXTH inventor  LEE, Gyoo Taek  Sixth inventor's signature  Legal name of SEVENTH inventor	Date
CHUN, Myung Sik  Fifth inventor's signature  Legal name of SIXTH inventor  LEE, Gyoo Taek  Sixth inventor's signature  Legal name of SEVENTH inventor  KWON, Oh Yeoul	Date 2018.7-6
CHUN, Myung Sik  Fifth inventor's signature  Legal name of SIXTH inventor  LEE, Gyoo Taek  Sixth inventor's signature  Legal name of SEVENTH inventor  KWON, Oh Yeoul  Seventh inventor's signature	Date
CHUN, Myung Sik  Fifth inventor's signature  Legal name of SiXTH inventor  LEE, Gyoo Taek  Sixth inventor's signature  Legal name of SEVENTH inventor  KWON, Oh Yeoul  Seventh inventor's signature	Date   >0/R - 7 - 6   Date
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CHUN, Myung Sik  Fifth inventor's signature  Legal name of SiXTH inventor  LEE, Gyoo Taek  Sixth inventor's signature  Legal name of SEVENTH inventor  KWON, Oh Yeoul  Seventh inventor's signature  Legal name of EIGHTH inventor  PARK, Hyun Chul	Date   >0/R - 7 - 6   Date
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CHUN, Myung Sik  Fifth inventor's signature  Legal name of SiXTH inventor  LEE, Gyoo Taek  Sixth inventor's signature  Legal name of SEVENTH inventor  KWON, Oh Yeoul  Seventh inventor's signature  Legal name of EIGHTH inventor  PARK, Hyun Chul	Date 2018-7-6

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As a below named inventor, I hereby declare that:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

# METHOD FOR REFINING MAGNETIC DOMAINS OF GRAIN-ORIENTED ELECTRICAL STEEL PLATES, AND APPARATUS THEREFOR

which	application is:
	attached, or
	United States application number or PCT international application number R2016/015161_ filed on <u>December 23, 2016_</u> .
The ab	ove-identified application was made or authorized to be made by me.

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having an address at (Goedong-dong) 6261, Donghaean-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do 37859, Republic of Korea

hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignee, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

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Page 2 of 3

Legal name of FIRST inventor	
HONG, Seong Cheol	
First inventor's signature	Date and the second sec
Legal name of SECOND inventor	
KIM, Jae Kyoum	
Second inventor's signature	Date
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Legal name of THIRD inventor	
MIN, Ki Young Third inventor's signature	Date
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Legal name of FOURTH inventor	
PARK, Se min	
Fourth inventor's signature	Date
The state of the s	
Legal name of FIFTH inventor CHUN, Myung Sik	
Fifth inventor's signature	Date
Legal name of SIXTH inventor	
LEE, Gyoo Taek	
Sixth inventor's signature	Date
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Legal name of SEVENTH inventor  KWON, Oh Yeoul	
Seventh inventor's signature	Date
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Legal name of EIGHTH inventor	
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PARK, Hyun Chul	
	Date

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Page 2 of 3

HONG, Seong Cheol First inventor's signature	Date
That inventor a agracuse	Date
Legal name of SECOND inventor	
KIM, Jae Kyoum	
Second inventor's signature	Date
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Legal name of THIRD inventor MIN, Ki Young	
Third inventor's signature	Date
Legal name of FOURTH inventor	
PARK, Se min	
Fourth inventor's signature	Date
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A Married Company	
Legal name of FIFTH inventor CHUN, Myung Sik	
Fifth inventor's signature	Date
Chur	July 16. 20
Legal name of SIXTH inventor	
LEE, Gyoo Taek	
Sixth inventor's signature	Date
Legal name of SEVENTH inventor  KWON, Oh Yeoul	
Seventh inventor's signature	Date
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T. J. CHOIMIL	
LOWIN TOWN AT MUSICIFIC INCOMPAN	
Legal name of EIGHTH inventor PARK, Hyun Chul Eighth inventor's signature	Date

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**RECORDED: 07/23/2018** 

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