

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5294468

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the APPLICATION NUMBER TO 15/539637 previously recorded on Reel 046464 Frame 0062. Assignor(s) hereby confirms the ASSIGNMENT.
RESUBMIT DOCUMENT ID:	505060923

CONVEYING PARTY DATA

Name	Execution Date
OH-YEOUL KWON	06/22/2017
SEUNG GON LEE	06/22/2017
HYUN-CHUL PARK	06/14/2017
JUNG HUN PARK	06/20/2017
SEONG-KYU SEE	06/13/2017
SUNG-YEUN WON	06/21/2017
JAE-KYOUM KIM	06/20/2017
JONG-TAE PARK	06/21/2017
SE MIN PARK	06/20/2017

RECEIVING PARTY DATA

Name:	POSCO
Street Address:	(GOEDONG-DONG) 6261, DONGHAEAN-RO, NAM-GU
City:	POHANG-SI, GYEONGSANGBUK-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	37859

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15539637

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: 2027568000**Email:** ipdocketmwe@mwe.com, wdcipptsclerks@mwe.com, smjohnson@mwe.com**Correspondent Name:** MCDERMOTT WILL & EMERY LLP**Address Line 1:** 500 NORTH CAPITOL STREET, N.W.**Address Line 2:** APT. 307**PATENT**

Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER: 097358-0034

NAME OF SUBMITTER: HOSANG LEE

SIGNATURE: /Hosang Lee/

DATE SIGNED: 12/20/2018

Total Attachments: 14

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 Stylesheet Version v1.2

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT																				
NATURE OF CONVEYANCE:	Corrective Assignment to correct the SPELLING OF THE SIXTH INVENTOR previously recorded on Reel 043442 Frame 0799. Assignor(s) hereby confirms the ASSIGNMENT.																				
CONVEYING PARTY DATA																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr><td>OH-YEOUL KWON</td><td>06/22/2017</td></tr> <tr><td>SEUNG GON LEE</td><td>06/22/2017</td></tr> <tr><td>HYUN-CHUL PARK</td><td>06/14/2017</td></tr> <tr><td>JUNG HUN PARK</td><td>06/20/2017</td></tr> <tr><td>SEONG-KYU SEE</td><td>06/13/2017</td></tr> <tr><td>SUNG-YEUN WON</td><td>06/21/2017</td></tr> <tr><td>JAE-KYOUM KIM</td><td>06/20/2017</td></tr> <tr><td>JONG-TAE PARK</td><td>06/21/2017</td></tr> <tr><td>SE MIN PARK</td><td>06/20/2017</td></tr> </tbody> </table>		Name	Execution Date	OH-YEOUL KWON	06/22/2017	SEUNG GON LEE	06/22/2017	HYUN-CHUL PARK	06/14/2017	JUNG HUN PARK	06/20/2017	SEONG-KYU SEE	06/13/2017	SUNG-YEUN WON	06/21/2017	JAE-KYOUM KIM	06/20/2017	JONG-TAE PARK	06/21/2017	SE MIN PARK	06/20/2017
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CORRESPONDENCE DATA																					
<p>Fax Number:</p> <p>Phone: 202-756-8000</p> <p>Email: ipdocketmwe@mwe.com, wdcipptsclerks@mwe.com, smjohnson@mwe.com</p> <p><i>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.</i></p> <p>Correspondent Name: MCDERMOTT WILL & EMERY LLP</p> <p>Address Line 1: THE MCDERMOTT BUILDING</p> <p>Address Line 2: 500 NORTH CAPITOL STREET, N.W.</p>																					

Address Line 4: WASHINGTON, D.C. 20001	
ATTORNEY DOCKET NUMBER:	097358-0034
NAME OF SUBMITTER:	HOSANG LEE
Signature:	/Hosang Lee/
Date:	06/29/2018
<p>Total Attachments: 16 source=0973580034ass#page1.tif source=0973580034ass#page2.tif source=0973580034ass#page3.tif source=0973580034ass#page4.tif source=0973580034ass#page5.tif source=0973580034ass#page6.tif source=0973580034ass#page7.tif source=0973580034ass#page8.tif source=0973580034ass#page9.tif source=0973580034ass#page10.tif source=0973580034ass#page11.tif source=0973580034ass#page12.tif source=0973580034ass#page13.tif source=0973580034ass#page14.tif source=0973580034ass#page15.tif source=0973580034ass#page16.tif</p>	
RECEIPT INFORMATION	
EPAS ID:	PAT5031395
Receipt Date:	06/29/2018

ASSIGNMENT

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

POSCO

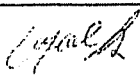
having an address at (Goedong-dong) 6261, Donghaean-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do 37859, Republic of Korea and;

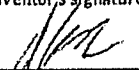
hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

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.

Legal name of FIRST inventor KWON, Oh-Yeoul	
First inventor's signature 	Date June 22, 2017

Legal name of SECOND inventor LEE, Seung Gon	
Second inventor's signature 	Date June 22, 2017

Legal name of THIRD inventor PARK, Hyun-Chul	
Third inventor's signature	Date

Legal name of FOURTH inventor PARK, Jung Hun	
FOURTH inventor's signature	Date

Legal name of FIFTH inventor SEE, Seong-Kyu	
FIFTH inventor's signature	Date

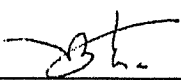
Legal name of SIXTH inventor WON, Sung-Yeun	
SIXTH inventor's signature	Date

Legal name of SEVENTH inventor KIM, Jae-Kyoum	
SEVENTH inventor's signature	Date

Legal name of EIGHTH inventor PARK, Jong-Tae	
EIGHTH inventor's signature	Date

Legal name of FIRST inventor KWON, Oh-Yeoul	
First inventor's signature	Date

Legal name of SECOND inventor LEE, Seung Gon	
Second inventor's signature	Date

Legal name of THIRD inventor PARK, Hyun-Chul	
Third inventor's signature 	Date 2017. 6. 14

Legal name of FOURTH inventor PARK, Jung Hun	
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Third inventor's signature	Date

Legal name of FOURTH inventor PARK, Jung Hun	
FOURTH inventor's signature <i>JH Park</i>	Date 6.20.2017

Legal name of FIFTH inventor SEE, Seong-Kyu	
FIFTH inventor's signature	Date

Legal name of SIXTH inventor WON, Sung-Yeun	
SIXTH inventor's signature	Date

Legal name of SEVENTH inventor KIM, Jae-Kyoun	
SEVENTH inventor's signature <i>J Kim</i>	Date 6.20.2017

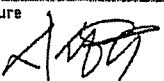
Legal name of EIGHTH inventor PARK, Jong-Tae	
EIGHTH inventor's signature <i>Park JongTae</i>	Date 6.21.2017

Legal name of FIRST inventor KWON, Oh-Yeoul	
First inventor's signature	Date

Legal name of SECOND inventor LEE, Seung Gon	
Second inventor's signature	Date

Legal name of THIRD inventor PARK, Hyun-Chul	
Third inventor's signature	Date

Legal name of FOURTH inventor PARK, Jung Hun	
FOURTH inventor's signature	Date

Legal name of FIFTH inventor SEE, Seong-Kyu	
FIFTH inventor's signature 	Date 2017. 6. 13

Legal name of SIXTH inventor WON, Sung-Yeun	
SIXTH inventor's signature	Date

Legal name of SEVENTH inventor KIM, Jae-Kyoum	
SEVENTH inventor's signature	Date

Legal name of EIGHTH inventor PARK, Jong-Tae	
EIGHTH inventor's signature	Date

Attorney Docket No.

Legal name of FIRST inventor KWON, Oh-Yeoul	
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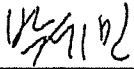
Legal name of FIFTH inventor SEE, Seong-Kyu	
FIFTH inventor's signature	Date

Legal name of SIXTH inventor WON, Sung-Yeun	
SIXTH inventor's signature <i>WON Sung-Yeun</i>	Date 6/21/2017

Legal name of SEVENTH inventor KIM, Jae-Kyoum	
SEVENTH inventor's signature	Date

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EIGHTH inventor's signature	Date

Attorney Docket No.

Legal name of NINETH inventor PARK, Se Min	
NINETH inventor's signature 	Date 6.20.2017