

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5430520

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAME OF THE THIRD INVENTOR, JI HEE MOON previously recorded on Reel 048091 Frame 0183. Assignor(s) hereby confirms the ASSIGNMENT.
CONVEYING PARTY DATA	
Name	Execution Date
CHAE MIN PARK	01/14/2019
KI WON KIM	01/14/2019
JI HEE MOON	01/14/2019
DONG HWI SHIN	01/14/2019
SANG SOO PARK	01/15/2019
WOO CHUL SHIN	01/15/2019
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRO-MECHANICS CO., LTD.
Street Address:	MAEYOUNG-RO 150 (MAETAN-DONG), YOUNGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16253705
CORRESPONDENCE DATA	
Fax Number:	(202)739-3001
<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>	
Phone:	2027393000
Email:	wapatents@morganlewis.com, angie.ellis@morganlewis.com
Correspondent Name:	MORGAN LEWIS & BOCKIUS LLP
Address Line 1:	1111 PENNSYLVANIA AVENUE, NW
Address Line 4:	WASHINGTON, D.C. 20004
ATTORNEY DOCKET NUMBER:	123193-7640
NAME OF SUBMITTER:	HOSANG LEE
SIGNATURE:	/Hosang Lee/
DATE SIGNED:	03/20/2019
Total Attachments: 4	

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PATENT

REEL: 048644 FRAME: 0355

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5336267

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	CHAE MIN PARK	01/14/2019
	KI WON KIM	01/14/2019
	HI HEE MOON <u>JI HEE MOON</u>	01/14/2019
	DONG HWI SHIN	01/14/2019
	SANG SOO PARK	01/14/2019
	WOO CHUL SHIN	01/14/2019
RECEIVING PARTY DATA		
Name:	SAMSUNG ELECTRO-MECHANICS CO., LTD.	
Street Address:	MAEYOUNG-RO 150 (MAETAN-DONG), YOUNGTONG-GU	
City:	SUWON-SI, GYEONGGI-DO	
State/Country:	KOREA, REPUBLIC OF	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16253705
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Phone:	202-739-5449	
Email:	karen.catalano@morganlewis.com	
Correspondent Name:	MORGAN, LEWIS & BOCKIUS LLP (WA)	
Address Line 1:	1111 PENNSYLVANIA AVENUE, N.W.	
Address Line 4:	WASHINGTON, D.C. 20004	
ATTORNEY DOCKET NUMBER:	123193-7640	
NAME OF SUBMITTER:	HOSANG LEE	
SIGNATURE:	/Hosang Lee/	
DATE SIGNED:	01/22/2019	
Total Attachments: 3		
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other relevant treaties;

I hereby authorize and request the United States Patent and Trademark Office and officials in patent offices in foreign countries to issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title, and interest in and to the same, for the sole use and benefit of the ASSIGNEE, and its lawful successors and assigns, to the full end of the term for which said Letters Patent may be granted;

I hereby grant the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document;

I hereby covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment; and

Further, I hereby further covenant and agree that I will, without further consideration, communicate with the ASSIGNEE, and its lawful successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said ASSIGNEE, and its lawful successors or assigns, execute all divisional, continuation, continuation-in-part, and reissue applications, make all rightful oaths and generally do everything possible to aid the ASSIGNEE, and its lawful successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the ASSIGNEE, and its lawful successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hands.

NAME OF INVENTOR (Full Legal Name) : Chae Min PARK

Signature:  Date: Jan. 14. 2019

NAME OF INVENTOR (Full Legal Name) : Ki Won KIM

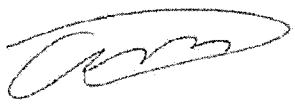
Signature:  Date: Jan. 14. 2019

NAME OF INVENTOR (Full Legal Name) : Ji Hee MOON

Signature:  Date: Jan 14. 2019

NAME OF INVENTOR (Full Legal Name) : Dong Hwi SHIN

Signature:  Date: Jan. 14. 2019

NAME OF INVENTOR (Full Legal Name) : <u>Sang Soo PARK</u>	
Signature: 	Date: <u>Jan. 15. 2019</u>
NAME OF INVENTOR (Full Legal Name) : <u>Woo Chul SHIN</u>	
Signature: 	Date: <u>Jan. 15. 2019</u>

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BE SENT TO CLIENT\WCombined Declaration and

Morgan, Lewis & Bockius LLP