

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HYUNG-JUN KIM	03/04/2018
SANGHYEON KIM	03/04/2018
JAE-PHIL SHIM	03/04/2018
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<b>Postal Code:</b>	02792
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15955690
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<b>SIGNATURE:</b>	/James J. Merrick/
<b>DATE SIGNED:</b>	04/18/2018
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

WHEREAS WE, **KIM, Hyung-jun** of 5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea; **KIM, Sanghyeon** of 5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea and **SHIM, Jae-Phil** of 5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea (hereinafter collectively referred to as the “**ASSIGNORS**”), have invented certain new and useful improvements in:

### **SEMICONDUCTOR DEVICE WITH HORIZONTALLY ALIGNED SEMICONDUCTOR CHANNELS AND METHOD FOR MANUFACTURING THE SAME**

(hereinafter referred to as the “**INVENTION**”) which claims priority to Korean Application No. 10-2017-0066818, filed on 30 May, 2017 (hereinafter collectively referred to as the “**APPLICATIONS**”);


AND WHEREAS, **KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY** (hereinafter referred to as “**ASSIGNEE**”), a corporation organized and existing under the laws of the Country of **Republic of Korea**, having a place of business at **5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea**, is desirous of acquiring an interest in any and all countries, in and to the **INVENTION**, the **APPLICATIONS**, and any and all Patents to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, we, the **ASSIGNORS**, have assigned and transferred, and hereby assign and transfer unto **ASSIGNEE**, the entire right, title and interest in and to the **INVENTION**, the **APPLICATIONS**, and any and all Patents that may be issued therefrom, in any and all countries, including any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to **ASSIGNEE**; and we do hereby agree that we will execute all papers necessary in connection with any and all patent applications when called upon to do so by **ASSIGNEE**, its successors or assigns, and that we will, at the cost and expense of **ASSIGNEE**, fully assist and cooperate in all matters in connection with any and all patent applications and Patents issuing thereon.

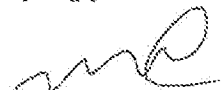
The undersigned declare that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that

these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the APPLICATIONS or any Patents issuing thereon.


Date: March 4, 2018

  
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KIM, Hyung-jun

Date: March 4, 2018

  
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KIM, Sanghyeon

Date: March 4, 2018

  
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SHIM, Jae-Phil