

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TAE WHAN KIM	06/18/2020
JUN GYU LEE	06/18/2020
HYUN SOO JUNG	06/18/2020
RECEIVING PARTY DATA	
Name:	INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY
Street Address:	C/O HANYANG UNIVERSITY, 222, WANGSIMNI-RO SEONGDONG-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	04763
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16957579
CORRESPONDENCE DATA	
Fax Number:	(703)563-9748
<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:	7037455495
Email:	DOCKET@NKLLAW.COM
Correspondent Name:	NOVICK, KIM & LEE, PLLC
Address Line 1:	3251 OLD LEE HIGHWAY, SUITE 404
Address Line 4:	FAIRFAX, VIRGINIA 22030
ATTORNEY DOCKET NUMBER:	PKL003023942
NAME OF SUBMITTER:	IRENE REE
SIGNATURE:	/IRENE REE/
DATE SIGNED:	06/24/2020
Total Attachments: 2	
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ASSIGNMENT

WHEREAS I/We, the below named inventor(s) (hereinafter referred to as Assignor(s)), have made an invention entitled:

VERTICAL MEMORY DEVICE AND METHOD OF FABRICATING THE SAME

for which I/WE executed an application for United States Letters Patent that was filed or will be filed in the United States Patent and Trademark Office; and

WHEREAS, **INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY**, a corporation of Republic of Korea, whose post office address is c/o Hanyang University, 222, Wangsimni-ro Seongdong-gu Seoul 04763, Republic of Korea (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee(s) is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee(s), its/their lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/We hereby authorize and request the Director of United States Patent and Trademark Office to issue all Letters Patent for this invention to Assignee(s), its/their successors and assigns, in accordance with the terms of this Assignment;

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

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee(s), its/their successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so,

execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee(s), its/their successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee(s), its/their successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee(s), its/their successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Power of Attorney in this application, to insert here in parentheses (Application No. 16/957,579, filed on June 24, 2020) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR KIM, Tae Whan	ASSIGNOR'S SIGNATURE <i>Tae Whan Kim</i>	DATE <i>June 18, 2020</i>
ADDRESS 405-1804, 221, Seolleung-ro Gangnam-gu Seoul 06276 Republic of Korea	CITIZENSHIP Republic of Korea	
2. FULL NAME OF SECOND ASSIGNOR LEE, Jun Gyu	ASSIGNOR'S SIGNATURE <i>Jun Gyu Lee</i>	DATE <i>June 18, 2020</i>
ADDRESS 102-1402, 57, Majo-ro Seongdong-gu Seoul 04759 Republic of Korea	CITIZENSHIP Republic of Korea	
3. FULL NAME OF THIRD ASSIGNOR JUNG, Hyun Soo	ASSIGNOR'S SIGNATURE <i>Hyun Soo Jung</i>	DATE <i>20.06.16</i>
ADDRESS No. 303, 18, Yeoksam-ro 15-gil Gangnam-gu Seoul 06245 Republic of Korea	CITIZENSHIP Republic of Korea	