505758949 11/05/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KI-SUK LEE	09/03/2019
HYE-JIN OK	09/03/2019
MYEONGHWAN KANG	09/03/2019
DAEHAN JEONG	09/03/2019

RECEIVING PARTY DATA

Name:	UNIST (ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY)
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City:	ULSAN
State/Country:	KOREA, REPUBLIC OF
Postal Code:	44919

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16675073	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	P284082US01-501270-00017		
NAME OF SUBMITTER:	KIMBERLY C. CROFT		
SIGNATURE:	/Kimberly C. Croft/		
DATE SIGNED:	11/05/2019		

Total Attachments: 4

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PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

Assignor(s):

Ki-Suk LEE 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan 44919 Republic of Korea

Hye-Jin OK 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan 44919 Republic of Korea

Myeonghwan KANG 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan 44919 Republic of Korea

Daehan Jeong 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan 44919, Republic of Korea

Assignee:

UNIST (ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY) 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan 44919
Republic of Korea

Country of Incorporation: Republic of Korea

PATENT APPLICATION SUBJECT TO THE ASSIGNMENT:

WHEREAS, the Assignor(s) identified above (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful processes, methods, machines, devices, systems, manufactures, and/or compositions of matter, or new and useful improvements thereof (the "Invention"), disclosed and described in an application for Letters Patent in Korea filed on the filing date indicated above in the Korean Intellectual Property Office and identified by the

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title, application number, and/or attorney docket number indicated above (the "Patent Application"); and

WHEREAS, Assignee, a corporation organized and existing under the laws of the State indicated above, and having its principal place of business at the address indicated above, desires to acquire the entire right, title, and interest of Assignor in and to the Invention, the Patent Application and in, to, and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, and transferred and does hereby sell, assign, and transfer to the Assignee, its successors, legal representatives, and assigns, the entire right, title and interest in and to the Invention, the Patent Application, and all divisional, continuation, continuation-in-part, and continuing prosecution applications that claim priority thereto, and any reexamination and reissue applications thereof; all international, regional, and foreign applications that claim priority to, are counterparts of, or otherwise correspond thereto; the Letters Patent in Korea, the United States and in countries or regions foreign thereto, that may or shall issue or have issued therefrom; any extensions, substitutes, or renewals thereof; the right to claim priority to the filing date of the Patent Application; any right, title, or interest in and to the Invention under any international conventions; and and any and all rights to collect damages for past, present, and future infringement of any U.S. or foreign rights, including provisional rights, which may be, shall be, or have been granted pursuant to the Patent Application (collectively "the Patent Rights"); and

In the event that the Patent Application claims priority to a provisional application previously filed and the provisional application was previously subject to an assignment from the Assignor, or one or more thereof, to the Assignee, this Assignment shall be considered a confirmatory assignment thereof; and

Assignor further authorizes said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and otherwise take advantage of the provisions of any international conventions; and

Assignor hereby authorizes and requests transfer of the Patent Application and any further applications, which may be or shall have been filed under the Patent Rights, to the Assignee in accordance herewith and further authorizes and requests any official of any State whose duty consists of issuing patents or other evidence or forms of any industrial property protection issuing from the Patent Application and all related applications, to issue same to the Assignee, its successors, and assigns in accordance herewith; and

Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number, filing date, and attorney docket no. of the Patent Application once known.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party, and Assignor hereby covenants and agrees with the Assignee, its successors and assigns, that Assignor will not execute in writing or do any act whatsoever conflicting with these representations; and

Assignors' Initials	
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Assignor agrees to disclose to the Assignee any information, including, but not fimited to, prior art references, that Assignor is presently aware of or becomes aware of in the future that would materially affect the patentability of the invention or the Patent Application or the present or future validity of the Patent Rights; and

Assignor, Assignor's successors, legal representatives, or administrators will at any time upon request, without further or additional consideration, but at the expense of the Assignee, its successors, and assigns, execute such additional writings and do such additional acts as said Assignee, its successors, and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for, obtaining, and enforcing any of the Patent Rights, including giving testimony in any proceedings or transactions involving such Patent Rights; and

This document may be executed in two or more counterparts and by facsimile, all of which shall be deemed an original, and all of which together shall constitute one and the same instrument; and

Assignor further covenants and agrees that this Assignment is effective as of filing of the application above.

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By: KI-SUKLEE		<u> </u>	
Ki-SuklEE Daled: <u>& Septe∞ber</u>	20/9		
ву:			
Hye-Jin OK/ Dated: 3 Geptember	2019		
By: Thing 7th Myeonghwan KANG			
Myeonghwan KANG Dated: <u>2 Copteday Adl</u>	<u>Y</u>		
By: Dashan Jeong Dashan Jeong Dashad: 3 September 2019			
,			
Assignors' Initials			

8837-7189-0083NI

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

IN TESTIMONY WHEREOF, the Assignee, by its undersigned officer, confirms its acceptance on the date set forth below.

Place: Ulsan, Republic of Korea

By: Sung Chul Bae

(printed name of authorized agent of assignee)

Its: Dean of University Industry Relations

(title)

Assignors' Initials
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RECORDED: 11/05/2019

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