PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAE-HYUK KWON	06/29/2017
HYUNTAK KIM	06/29/2017

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15645969

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NAME OF SUBMITTER:	CAROLYN SCHLABACH
SIGNATURE:	/Carolyn Schlabach/
DATE SIGNED:	07/10/2017

Total Attachments: 3

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> **PATENT** REEL: 042956 FRAME: 0574 504449969

ASSIGNMENT

WHEREAS, we, Tae-Hyuk KWON, of Ulsan, Republic of Korea, and Hyuntak KIM, of
Ulsan, Republic of Korea, have invented a certain invention, entitled METHOD OF
PREPARING HETEROATOM-DOPED CARBON NANOMATERIAL, for which an
application for Letters Patent of the United States of America, Application No.
15/645,933 , is being filed on July 10 , 2017, which application is
referred to herein as the "United States patent application," with a claim for priority to Korean
Patent Application No. 10-2016-0154445, filed on November 18, 2016; and

WHEREAS, UNIST(ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY), a foundation organized under the laws of Korea, having a place of business at 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan 44919 Republic of Korea, owns an interest therein and wishes to record that interest with the United States Patent and Trademark Office:

NOW, THEREFORE, we, Tae-Hyuk KWON and Hyuntak KIM, acknowledge that UNIST(ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY) is the owner of the full and exclusive right, title and interest in and to the invention, United States patent application, and all corresponding United States divisions, continuations, and continuations-in-part, any resulting letters patent, and all reissues and extensions thereof, and for good and valuable consideration, the receipt of which is hereby acknowledged, we do hereby sell, assign and transfer to UNIST(ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY), all our right, title and interest in and to the invention, United States patent application, and all corresponding United States divisions, continuations, and continuations-in-part, any resulting letters patent, and all reissues and extensions thereof, to be held and enjoyed by UNIST(ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY), for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

We confirm that at the time the invention was made, we were under an obligation to assign the invention to UNIST(ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY).

Assignment - Method of Preparing Heteroatom-Doped Carbon Nanomaterial - Page 1 of 3

PATENT REEL: 042956 FRAME: 0575 We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our signatures below.

Executed at Ulsan , ICA ,	this <u>29</u> day of <u>June</u> , 20	017.
(City, Country)		
	$\frac{1}{2}$	
	Tae-Hyuk KWON	
7 d		
In the presence of:		
FIM. JIW		
Witnessed by		
JIUN KIM		
Name (print)		
June 29, 2017		
Date		

9022-99251-01 GN-53750-US

Executed at _	Ulsan, KR (City, Country)	, this 29_day of June	, 2017.
	(= 1 g ,	Hyuntak KIM	
In the presen	ce of:		
KZ	M, JIW		
Witnessed by	У		
JIUN K	IM		
Name (print)			
June 2	29, 2017		
Date			

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PATENT REEL: 042956 FRAME: 0577

RECORDED: 07/10/2017