505523689 06/13/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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SU-HYO KIM	06/12/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16440145

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DATE SIGNED:	06/13/2019

Total Attachments: 2

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PATENT 505523689 REEL: 049459 FRAME: 0849

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt of which is hereby acknowledged, by this document

ASSIGNOR	(8):	
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assigns and	transfers to:	
ASSIGNEE:		Y
Korea Univer Foundation	sity Research and Business	s 145, Anam-ro, Seongbuk-gu, Seoul 02841 KR
the entire r METHOD O	ight, title and interest in FMANUFACTURING THE	and to the invention entitled: NANO-CATALYST FILTER AND SAME
and which is	found in (check one or mo	re):
U.S.	patent application no.	no filed
and in and t	©	

- all patent applications filed and letters patent obtained for the invention, whether foreign and domestic, and all continuations, continuation-in-part divisions, renewals, reissues, reexaminations, or substitutes of any such patent or patent application;
- all rights to any legal equivalent thereof in a foreign country such as patents of addition, utility models, patents of importation, revalidation patents and inventor certificates;
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- the right to sue and recover any and all damages and profits, and any and all other remedies, for past, present, or future infringements of patents directed to the invention.

ASSIGNOR(S) authorizes ASSIGNEE or its legal representative to insert in this instrument the filing date, serial number, and any other information that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office or any other domestic or foreign government entity for the recordation of this document.

ASSIGNOR(S) warrants and agrees that:

- no assignment, sale, agreement or encumbrance has been or will be made or entered into which
 would conflict with this assignment;
- upon request, ASSIGNOR(S) will promptly provide ASSIGNEE with all pertinent facts and documents relating to the invention as may be known and accessible to ASSIGNOR(S);
- ASSIGNOR(S) will, at ASSIGNEE's expense, testify as to the same in any interference, litigation
 or proceeding related to the invention; and
- ASSIGNOR(s) will promptly execute and deliver to ASSIGNEE, its assigns or its legal representatives, without further or additional consideration, any and all papers, instruments or

affidavits required, render all necessary assistance, and do such additional acts as ASSIGNEE or its successors or assigns may deem necessary or desirable, to apply for, obtain, maintain, issue and enforce any resulting patents or patent applications.

ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks and any foreign counterpart to issue any and all letters patent for the invention to ASSIGNEE, for ASSIGNEE's sole use and benefit, and for the use and benefit of ASSIGNEE's successors and assigns, to the full end of the term for which any such patent may be granted.

ASSIGNOR(S) agrees that this document shall bind and inure to the benefit of the heirs, assigns and legal representatives of both ASSIGNOR(S) and ASSIGNEE.

Date: June 12,2019