

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KWAN IL LEE	11/06/2019
GUKBEEN RYU	11/08/2019
SANG BAE LEE	11/08/2019
IN SOO KIM	11/11/2019
WONSUK LEE	11/08/2019
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16687692
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SIGNATURE:	/James J. Merrick/
DATE SIGNED:	11/19/2019
Total Attachments: 2	

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ASSIGNMENT

WHEREAS WE, **LEE, Kwan Il** of 5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea; **RYU, Gukbeen** of 5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea; **LEE, Sang Bae** of 5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea; **KIM, In Soo** of 5, Hwarang-ro 14-gil, Seongbuk-gu, Seoul, 02792, Republic of Korea and **LEE, Wonsuk** 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:

DUAL BRILLOUIN DISTRIBUTED OPTICAL FIBER SENSOR AND SENSING METHOD USING BRILLOUIN SCATTERING WHICH ALLOW HIGH-SPEED EVENT DETECTION AND PRECISE MEASUREMENT

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: Nov. 6, 2019

Kwan Il Lee
LEE, Kwan Il

Date: Nov. 8, 2019

Gukbeen Ryu
RYU, Gukbeen

Date: Nov. 8, 2019

Sang Bae Lee
LEE, Sang Bae

Date: Nov. 11, 2019

In Soo Kim
KIM, In Soo

Date: Nov. 8, 2019

Wonsuk Lee
LEE, Wonsuk