

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Young-Se Kwon	10/16/2009
Kyoung-Min Kim	10/16/2009
Sung-Woo Hyun	10/16/2009
Bo-In Son	10/16/2009

RECEIVING PARTY DATA

Name:	WAVENICS INC.
Street Address:	Bandochedong 2305, KAIST
Internal Address:	373-1, Guseong-dong, Yuseong-gu
City:	Daejeon-city
State/Country:	REPUBLIC OF KOREA
Postal Code:	305-338

Name:	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY
Street Address:	373-1, Guseong-dong, Yuseong-gu
City:	Daejeon-city
State/Country:	REPUBLIC OF KOREA
Postal Code:	305-701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12596888

CORRESPONDENCE DATA

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
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 Correspondent Name: Douglas W. Sprinkle

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**PATENT
 REEL: 023403 FRAME: 0182**

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Address Line 4: Troy, MICHIGAN 48007

ATTORNEY DOCKET NUMBER:	YOU-16702/00
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NAME OF SUBMITTER:	Douglas W. Sprinkle
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Total Attachments: 3 source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Young-Se Kwon; Kyoung-Min Kim; Sung-Woo Hyun; and Bo-In Son (hereinafter referred to as Assignors), residing at 101-1202, Hanbit Apt., 99, Eoeun-dong, Yuseong-gu, Daejeon, REPUBLIC OF KOREA 305-755; 59-12, Singil-dong, Yeongdeungpo-gu, Seoul, REPUBLIC OF KOREA 150-050; Dongyang Keureo Apt. 102-101, Banghak3-dong, Dongbong-gu, Seoul, REPUBLIC OF KOREA 132-023; and 333, Imeun-dong, Gyeongsangbuk-do, Gumi-Si, REPUBLIC OF KOREA 730-130, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in METAL-BASED PHOTONIC DEVICE PACKAGE MODULE AND MANUFACTURING METHOD THEREOF, set forth in a Patent application for which an International Application was filed on September 18, 2007, PCT/KR2007/004489, designating the United States; and

WHEREAS, Wavenics Inc. and Korea Advanced Institute of Science and Technology, a Corporation, respectively organized under and pursuant to the laws of and Korea, Republic of, respectively having their principal places of business at Bandochedong 2305, KAIST, 373-1, Guseong-dong, Yuseong-gu, Daejeon-City, REPUBLIC OF KOREA 305-338; and 373-1, Guseong-dong, Yuseong-gu, Daejeon-City, REPUBLIC OF KOREA 305-701, respectively (hereinafter referred to as Assignees), are desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignees, their successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held

and enjoyed by Assignees, for their own use and benefit and the use and benefit of their successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignees, their successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignees under law or that have already been transferred to Assignees, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignees, their successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignees, their successors, legal representatives and assigns, whenever counsel of Assignees, or counsel of their successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignees, as Assignees of said inventions and

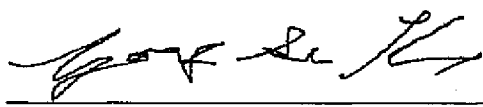
the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

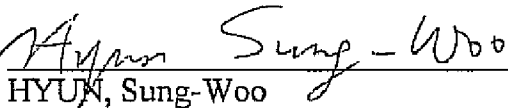
GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON & CITKOWSKI, P.C.

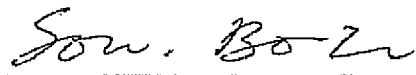
All practitioners at Customer Number 25006

AND Assignor acknowledges an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 09/10/16 Signature: 
KWON, Young-Se

Date: 2009.10.16 Signature: Kim, Kyoung Min.
KIM, Kyoung-Min

Date: 2009-10-16 Signature: 
HYUN, Sung-Woo

Date: 2009.10.16 Signature: 
SON, Bo-In