

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KWANG OK KIM	10/31/2016
KYEONG HWAN DOO	10/31/2016
HWAN SEOK CHUNG	11/07/2016
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15398841
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DATE SIGNED:	01/05/2017
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, Kwang Ok KIM, a citizen of Republic of Korea, whose post office address is NO.101-1201, 219, Yuyeon-ro, Wansan-gu, Jeonju-si, Jeollabuk-do 54955, Republic of Korea, Kyeong Hwan DOO, a citizen of Republic of Korea, whose post office address is NO.203-1006, 253, Cheongsa-ro, Seo-gu, Daejeon 35205, Republic of Korea and Hwan Seok CHUNG, a citizen of Republic of Korea, whose post office address is NO.607-601, 78, Baeul 2-ro, Yuseong-gu, Daejeon 34023, Republic of Korea, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

PASSIVE OPTICAL NETWORK RECEIVING AND TRANSMITTING FRAME
USING MULTIPLE LANES

for which they have executed an application for Letters Patent for the United States in the United States Patent and Trademark Office even date herewith.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request Taeksoo Lee, Reg. No. 61,976 of the LRK Patent Law Firm, whose address is 1952 Gallows Rd., Suite 200, Vienna, Virginia 22182, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

AND WHEREAS, Electronics and Telecommunications Research Institute, a corporation organized and existing under the laws of Republic of Korea, whose post-office address is 218 Gajeong-ro, Yuseong-gu, Daejeon 34129, Republic of Korea, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and

advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNORS, on the respective dates indicated below.

<u>Kim</u>	<u>Oct. 31. 2016</u>	<u>[Signature]</u>	<u>Oct. 31. 2016</u>
Kwang Ok KIM	Date	Kyeong Hwan DOO	Date
<u>[Signature]</u>	<u>November 7, 2016</u>		
Hwan Seok CHUNG	Date		

Witnessed by:

_____	_____	_____	_____
	Date		Date