

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kwan-II LEE</td><td>07/21/2008</td></tr><tr><td>Sang-Bae LEE</td><td>07/21/2008</td></tr></tbody></table>		Name	Execution Date	Kwan-II LEE	07/21/2008	Sang-Bae LEE	07/21/2008		
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<table border="1"><tr><td>Name:</td><td>KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY</td></tr><tr><td>Street Address:</td><td>39-1, Hwaalgok-dong, Seongbuk-gu, Seoul 136-790</td></tr><tr><td>City:</td><td>Seoul</td></tr><tr><td>State/Country:</td><td>REPUBLIC OF KOREA</td></tr></table>		Name:	KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY	Street Address:	39-1, Hwaalgok-dong, Seongbuk-gu, Seoul 136-790	City:	Seoul	State/Country:	REPUBLIC OF KOREA
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PROPERTY NUMBERS Total: 1									
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CORRESPONDENCE DATA									
Fax Number: (202)478-1813 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone: 2024293789									
Email: charles@mbiplaw.com									
Correspondent Name: Charles Y. Park									
Address Line 1: 1120 20th St NW 750S									
Address Line 4: Washington, DISTRICT OF COLUMBIA 20036									
ATTORNEY DOCKET NUMBER:	13000.KIST.014								
NAME OF SUBMITTER:	Charles Y. Park								
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif									

OP \$40.00 12185408

ASSIGNMENT

For valuable consideration, I/we,

Kwan-II LEE of #9-706, Plaza Apt., Garak 2-dong, Songpa-gu, Seoul, 138-162, Republic of Korea, and

Sang-Bae LEE of #101-1095, Daerim Byucksaam Apt., 363 Junggye-dong, Nowon-gu, Seoul, 139-220, Republic of Korea,

hereby assign to KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY, a corporation having a place of business at 39-1, Hawolgok-dong, Seongbuk-gu, Seoul 136-790, Republic of Korea; and its successors and assigns (collectively hereinafter called "the Assignee"),

the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by me, with title Bidirectional Wavelength-Division-Multiplexed Passive Optical Network, filed 08/04/2008, and assigned U.S. Serial Number 12/185,408, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for myself and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand this 21 day of July, 2008

Sang-Bae LEE

U.S.

Before me this 21 day of July, 2008 personally appeared the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Witnessed by

Name: Jung Sub. Lim

Address: Korea Cons. Center, 10th Floor, 80-b
Susang-Dong, Chungro-Ku,
110-727, Republic of Korea

IN WITNESS WHEREOF, I hereto set my hand this 21 day of July, 2008

Kwan-II LEE
Kwan-II LEE

L.S.

Before me this 21 day of July, 2008 personally appeared the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Witnessed by Jung Sub Lim

Name: _____

Address: Korea Coal Center, 10th Floor, 80-b
Susong-Dong, Chongro-Ku,
110-727, Republic of Korea

PATENT

RECORDED: 08/04/2008

REEL: 021336 FRAME: 0004