

PATENT ASSIGNMENT

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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>Jung Ho SONG</td><td>11/22/2007</td></tr><tr><td>Yong Soon BAEK</td><td>11/22/2007</td></tr><tr><td>Sung Il KIM</td><td>11/22/2007</td></tr><tr><td>Ki Soo KIM</td><td>11/22/2007</td></tr></tbody></table>	Name	Execution Date	Jung Ho SONG	11/22/2007	Yong Soon BAEK	11/22/2007	Sung Il KIM	11/22/2007	Ki Soo KIM	11/22/2007	
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Jung Ho SONG	11/22/2007										
Yong Soon BAEK	11/22/2007										
Sung Il KIM	11/22/2007										
Ki Soo KIM	11/22/2007										
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State/Country:	KOREA, REPUBLIC OF										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11994325</td></tr></tbody></table>	Property Type	Number	Application Number:	11994325							
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Application Number:	11994325										
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Total Attachments: 2 source=YPL-131NP_ASS_FILED#page1.tif source=YPL-131NP_ASS_FILED#page2.tif											

OP \$40.00 11994325

PATENT

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REEL: 020303 FRAME: 0036

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS SONG, Jung Ho; BAEK, Yong Soon; KIM, Sung Il ; KIM, Ki Soo hereinafter referred to collectively as the assignor, has invented a certain improvement relating to BI-DIRECTIONAL OPTICAL MODULE, said application having been filed under the Patent Cooperation Treaty on 21 July 2006, Serial No. PCT/KR2006/002875, the United States of America being designated.

AND WHEREAS Electronics and Telecommunications Research Institute of 161 Gajeong-dong, Yusong-gu, Daejeon-city, Republic of Korea, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, 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 paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 22nd day of November, 2007.

WITNESSES:

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RABIN & BERDO, P.C., Washington, D.C.

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Page 2 of 2

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Signature: [Signature]
Name: KIM, Sung Il

ASSIGNOR:

Signature: [Signature]
Name: KIM, Ki Soo