

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Heyung Sub LEE</td> <td>12/05/2007</td> </tr> <tr> <td>Jae Hoon YU</td> <td>12/05/2007</td> </tr> <tr> <td>Dong-Beom SHIN</td> <td>12/05/2007</td> </tr> <tr> <td>Hong Soon NAM</td> <td>12/05/2007</td> </tr> <tr> <td>Young Sun KIM</td> <td>12/05/2007</td> </tr> </tbody> </table>		Name	Execution Date	Heyung Sub LEE	12/05/2007	Jae Hoon YU	12/05/2007	Dong-Beom SHIN	12/05/2007	Hong Soon NAM	12/05/2007	Young Sun KIM	12/05/2007
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Hong Soon NAM	12/05/2007												
Young Sun KIM	12/05/2007												
RECEIVING PARTY DATA													
Name:	Electronics and Telecommunications Research Institute												
Street Address:	161 Gajeong-dong, Yusong-gu												
City:	Daejeon-City												
State/Country:	REPUBLIC OF KOREA												
PROPERTY NUMBERS Total: 1													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11952837</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11952837								
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Application Number:	11952837												
CORRESPONDENCE DATA													
Fax Number:	(202)408-0924												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	YPL-116												
NAME OF SUBMITTER:	Steven M. Rabin - 29,102												

OP \$40.00 11952837

Total Attachments: 3

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**PATENT
 REEL: 020215 FRAME: 0253**

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ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS LEE, Heyung Sub; YU, Jae Hoon; SHIN, Dong-Beom; NAM, Hong Soon; KIM, Young Sun hereinafter referred to collectively as the assignor, has invented a certain improvement relating to

APPARATUS FOR IMPLEMENTING ELECTRO-OPTICAL CATV NETWORK AND SIGNAL PROCESSING METHOD USED BY THE APPARATUS

the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office; [x] said application having been filed in the United States Patent and Trademark Office on December 7, 2007, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Phillip G. Avruch, and Allen Wood of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (Application Serial No. 11/952,837) the application serial number of said application when known;

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 7th day of December, 2007.

WITNESSES:

Signature: Ock

Name: CHOI, Sung Ock

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Signature: yy

Name: YONG, Eun Ju

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ASSIGNOR:

Signature: Heyung Sub Lee

Name: LEE, Heyung Sub

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

PATENT**REEL: 020215 FRAME: 0255**

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Page 2 of 2

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Signature: Dong Beom Shin

Name: SHIN, Dong-Beom

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Signature: [Signature]

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Address: Koryo Building 1575-1, Seocho-dong
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Signature: Yong

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ASSIGNOR:

Signature: Yh

Name: KIM, Young Sun

PATENT