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1. Name of conveying party(ies): Han Hyub Lee; Donghan Lee; Hee Sang Chung; Hyun Jae Lee 7.20.04		2. Name and address of receiving party(ies): Name: Electronics and Telecommunications Research Institute Internal Address: _____ Street Address: 161 Gajeong-dong, Yusong-gu City: Daejeon-city State: _____ ZIP: _____ Country: Republic of Korea Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>06/14/2004</u> <u>06/16/2004</u>			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: <u>06/14/04</u> <u>06/16/04</u> A. Patent Application No.(s) 10896347 B. Patent No.(s) _____ Additional numbers attached? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Blakely, Sokoloff, Taylor & Zafman LLP Internal Address: _____ Street Address: 12400 Wilshire Boulevard 7th Floor City: Los Angeles State: CA ZIP: 90025		6. Total number of applications and patents involved: 1	
		7. Total Fee (37 CFR 3.41).....\$ 40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account	
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Eric S. Hyman

Name of Person Signing

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Date

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Docket No. 2013P189

PATENT
 REEL: 015608 FRAME: 0991

ASSIGNMENT

In consideration of the receipt of good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- | | |
|----------------------------|------------|
| (1) <u>LEE, Han Hyub</u> | (6) _____ |
| (2) <u>LEE, Donghan</u> | (7) _____ |
| (3) <u>CHUNG, Hee Sang</u> | (8) _____ |
| (4) <u>LEE, Hyun Jae</u> | (9) _____ |
| (5) _____ | (10) _____ |

who have made a certain new and useful invention, hereby sell, assign and transfer unto
Electronics and Telecommunications Research Institute of 161 Gajeong-dong
Yusong-gu, Daejeon-city, Rep. of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

LONG-WAVELENGTH-BAND GAIN-CONTROLLED OPTICAL AMPLIFIER

- (a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____ ;
or
(b) for which an application for United States Letters Patent was executed on June 14, 2004 / June 16, 2004

and the undersigned hereby authorize and request the United States Commissioner of Patent and Trademarks to issue any and all United States Letters Patents which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED of the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

- | | |
|---|----------------------|
| 1) <u>[Signature]</u>
Name: <u>LEE, Han Hyub</u> | <u>June 14, 2004</u> |
| 2) <u>[Signature]</u>
Name: <u>LEE, Donghan</u> | <u>June 14, 2004</u> |
| 3) <u>[Signature]</u>
Name: <u>CHUNG, Hee Sang</u> | <u>June 14, 2004</u> |
| 4) <u>[Signature]</u>
Name: <u>LEE, Hyun Jae</u> | <u>June 14, 2004</u> |