

12-11-2006

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

- 1) KIM, Byoung Whi Sep. 21, 2006
 2) PARK, Mohn Yong Sep. 21, 2006
 3) LEE, Woo-Ram Sep. 21, 2006
 4) KIM, Tae Yeon Sep. 25, 2006

Execution Date(s)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

Name: ELECTRONICS AND TELECOMMUNICATIONSInternal Address: RESEARCH INSTITUTEStreet Address: 161 Gajeong-dong,Yuseong-gu, Daejeon, Republic ofKorea

City:

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Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

12/06/2006 H00000014 11633349

(40.00 OP)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Woochoon W. Park

Internal Address:

Street Address: c/o Ladas & Parry224 South Michigan AvenueCity: ChicagoState: IllinoisZip: 60604Phone Number: (312) 427-1300

Fax Number:

Email Address:

6. Total number of applications and patents involved:

17. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers

Expiration Date

b. Deposit Account Number 12-0400Authorized User Name Ladas & Parry LLP

9. Signature:

December 4, 2006

Signature

Date

Woochoon W. Park

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

UNITED STATES OF AMERICA
ASSIGNMENT

In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for the other good and valuable consideration,

ASSIGNOR:

KIM, Byoung Whi
105-1506 Narae Apt., Jeonmin-dong, Yusong-gu
Daejeon-city, Republic of Korea

PARK, Mahn Yong
2-402 Science & Technology Apt., Oryong-dong, Book-gu
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LEE, Woo-Ram
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Daejeon-city, Republic of Korea

KIM, Tae Yeon
306-601 Kukwha Apt., Samcheon-dong, Seo-gu
Daejeon-city, Republic of Korea

hereby sells, assigns and transfers to

ASSIGNEE:

Electronics and Telecommunications Research Institute
161 Gajeong-dong, Yusong-gu, Daejeon-city, Republic of Korea

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Application entitled

REFLECTIVE SEMICONDUCTOR OPTICAL AMPLIFIER (RSOA), RSOA MODULE
HAVING THE SAME, AND PASSIVE OPTICAL NETWORK USING THE SAME

which application was

☒ (a) executed by the undersigned on _____ even date herewith

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and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have set our hand and seal

21/09/2006

Date

Kim Byoung-whi

KIM, Byoung Whi

21/09/2006

Date

Park Mahn Yong

PARK, Mahn Yong

21/09/2006

Date

LEE, Woo-Ram

LEE, Woo-Ram

25/09/2006

Date

KIM, Tae Yeon

KIM, Tae Yeon