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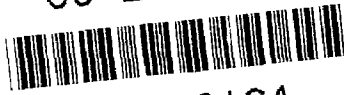
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OMB No. 0651-0027 (exp. 6/30/2005)

06-20-2005

U.S. DEPARTMENT OF COMMERCE  
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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) KWON, Yong Hwan
- 2) CHOE, Joong Seon

Execution Date(s) June 7, 2005

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

2. Name and address of receiving party(ies)

Name: ELECTRONICS AND TELECOMMUNICATIONS

Internal Address: RESEARCH INSTITUTE

Street Address: 161 Gajeong-dong,

Yuseong-gu, Daejeon, Republic of

Korea

City: \_\_\_\_\_

State: \_\_\_\_\_

Country: \_\_\_\_\_

Zip: \_\_\_\_\_

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

3. Nature of conveyance:

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

06/15/2005 LWONDIM1 00000005 11151217

06 FC:8021

(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 & Parry

224 South Michigan Avenue

City: Chicago

State: Illinois

Zip: 60604

Phone Number: (312) 427-1300

Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

6. Total number of applications and patents involved: 1

7. 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 12-0400

Authorized User Name Ladas & Parry LLP

9. Signature:

Signature

June 13, 2005

Date

Woochoon W. Park

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

Documents 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

113268 U.S. PTO  
11/15/2005



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**UNITED STATES OF AMERICA**  
**ASSIGNMENT**

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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(S):**

- 1) **Yong Hwan Kwon** of Expo Apt. 209-608, Jeonmin-dong, Yuseong-gu, Daejeon Korea
- 2) **Joong Seon Choe** of 632-2 Jayang 1-dong, Gwangjin-gu, Seoul, Korea

hereby sells, assigns and transfers to

**ASSIGNEE:**

**ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE**  
of 161 Gajeong-dong, Yuseong-gu, Daejeon, 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

**SEMICONDUCTOR OPTICAL MODULATOR INTEGRATED RESISTOR FOR**  
**IMPEDANCE MATCHING USING SEMICONDUCTOR DOPED LAYER**  
**AND METHOD OF FABRICATING THE SAME**

which application was

- (a) executed by the undersigned on June 7, 2005
- (b) filed as Serial No. \_\_\_\_\_ on \_\_\_\_\_

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, I/we have set our hand and seal

June 7, 2005  
Date

Yong Hwan Kwon   
INVENTOR

June 7, 2005  
Date

Joong Seon Choe   
INVENTOR