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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, Tae Hong
- 2) YOU, Jong Jun
- 3) SUNG, Hee Kyung

Execution Date(s) September 10, 2005Additional 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 of

Korea

City: _____

State: _____

Country: _____ Zip: _____

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

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)

09/30/2005 DTESSEM1 00000028 11237223

04 FC:8021

40.00 GF

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 AvenueCity: ChicagoState: Illinois Zip: 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: _____

September 28, 2005

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(S):

- 1) **Tae Hong Kim** of Hanbit Apt. 111-402, Eoeun-dong, Yuseong-gu, Daejeon, Republic of Korea
- 2) **Jong Jun You** of Gangbyun Apt. 105-101, 1-2 Mannyun-dong, Seo-gu, Daejeon, Republic of Korea
- 3) **Hee Kyung Sung** of EXPO Apt. 308-1603, Jeunmin-dong, Yuseong-gu, Daejeon Republic of Korea

hereby sells, assigns and transfers to

ASSIGNEE:

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

PLANAR OPTICAL WAVEGUIDE AND METHOD OF FABRICATING THE
SAME

which application was

- ☒ (a) executed by the undersigned on September 10, 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

September 10, 2005
Date

Tae Hong Kim *Tae Hong Kim*
INVENTOR

September 10, 2005
Date

Jong Jun You *Jong Jun You*
INVENTOR

September 10, 2005
Date

Hee Kyung Sung *Hee-Kyung Sung*
INVENTOR