

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yong Tak Lee</td> <td>12/15/2010</td> </tr> <tr> <td>Young Min Song</td> <td>12/15/2010</td> </tr> </tbody> </table>		Name	Execution Date	Yong Tak Lee	12/15/2010	Young Min Song	12/15/2010
Name	Execution Date						
Yong Tak Lee	12/15/2010						
Young Min Song	12/15/2010						
RECEIVING PARTY DATA							
Name:	Gwangju Institute of Science and Technology						
Street Address:	1 Oryong-Dong, Buk-Gu						
City:	Gwangju						
State/Country:	REPUBLIC OF KOREA						
Postal Code:	500-712						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12999148</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12999148		
Property Type	Number						
Application Number:	12999148						
CORRESPONDENCE DATA							
Fax Number:	(412)945-5933						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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NAME OF SUBMITTER:	Richard L. Byrne						

OP \$40.00 12999148

Total Attachments: 3
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PATENT
REEL: 025504 FRAME: 0659

RECORDATION FORM COVER SHEET PATENTS ONLY

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)

Yong Tak LEE
Young Min SONG

2. Name and address of receiving party(ies)

Name: Gwangju Institute of Science and Technology

Internal Address: _____

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) December 15, 2010

- | | |
|---|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Joint Research Agreement | |
| <input type="checkbox"/> Government Interest Assignment | |
| <input type="checkbox"/> Executive Order 9424, Confirmatory License | |
| <input type="checkbox"/> Other _____ | |

Street Address: 1 Oryong-Dong, Buk-Gu, Gwangju

City: _____

State: _____

Country: REPUBLIC OF KOREA Zip: 500-712

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)

12/999,148

Additional numbers attached? Yes No

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

Name: Richard L. Byrne

Internal Address: The Webb Law Firm

Street Address: 436 Seventh Avenue
700 Koppers Building

City: Pittsburgh

State: PA Zip: 15219

Phone Number: 412-471-8815

Fax Number: 412-945-5933

Email Address: assignments@webblaw.com

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)

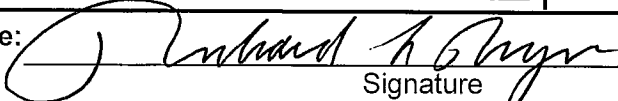
8. Payment Information

a. Credit Card Last 4 Numbers 4775
Expiration Date 05/2012

b. Deposit Account Number 23-0650

Authorized User Name _____

9. Signature:


Signature

December 15, 2010

Date

Richard L. Byrne, Registration No. 28,498

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 (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS, WE, 1) LEE, Yong Tak, at C-305, Professor Company Housing, Gwangju
Institute of Science & Technology, 1 Oryong-Dong, Buk-Gu, Gwangju
500-712, Republic of Korea (KR)
2) SONG, Young Min, at F-405, Married Students APT. Gwangju Institute of
Science & Technology Oryong-Dong, Buk-Gu, Gwangju 500-712
Republic of Korea (KR)

, respectively, have invented certain new and useful improvements in the invention entitled "METHOD OF FABRICATING ANTIREFLECTIVE GRATING PATTERN AND METHOD OF FABRICATING OPTICAL DEVICE INTEGRATED WITH ANTIREFLECTIVE GRATING PATTERN" for which we have this day executed an application for United States Letters Patent;

AND, WHEREAS, GWANGJU INSTITUTE OF SCIENCE AND TECHNOLOGY, residing in 1 Oryong-Dong, Buk-Gu, Gwangju 500-712, Republic of Korea, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

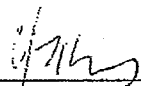
The Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be,

of said assignee.

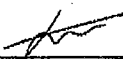
Date Dec. 15, 2010

Inventor LEE, Yong Tak


(Signature of Inventor)

Date Dec. 15, 2010

Inventor SONG, Young Min


(Signature of Inventor)