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PATENTS ONLY

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

William B. Russel
Stephen Y. Chou
Leonard F. Pease, III
Parikshit A. Deshpande

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Dated: 03/14/05, 03/04/05, 01/18/05, and 03/28/05, respectively

2. Name and address of receiving party(ies):

Princeton University

Name: _____

Internal Address: _____

Street Address: **4 New South Building**City: **Princeton** State: **NJ** Zip: **08544**Additional name(s) and address(es) attached? ☐ Yes ☒ No

Application number(s) or patent numbers(s):

If this document is being filed together with a new patent application, the execution date is:

A. Patent Application No(s). **60/506,789, filed 09/29/03;**
and 10/953,906, filed 09/29/04

B. Patent No(s). _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: **Docketing Administrator- 14002/22**Internal Address: **Lowenstein Sandler PC**Street Address: **65 Livingston Avenue**City: **Roseland** State: **NJ** ZIP: **07068**

6. Total number of applications and patents involved:

27. Total fee (37 CFR 3.41).....\$ **80.00**

- ☐ Enclosed
☒ Authorized to be charged to deposit account
☒ Authorized to charge any underpayment or credit any overpayment to deposit account

8. Deposit account number: **501358**

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9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

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Name of Person Signing

Signature

April 8, 2005

Date

Total number of pages including cover sheet, attachments, and documents: **7**

Mail or fax (703-306-5885) documents to be recorded with required cover sheet information to:

Mail Stop: Assignment Recordation Services

Director of the United States Patent & Trademark Office

P.O. Box 1450, Alexandria, VA 22313-1450

14002/22

04/07/2005 000469121

PATENT
REEL: 016037 FRAME: 0973

CH \$40.00 601358 60506789

ASSIGNMENT

WHEREAS, WE, William B. Russel (citizen of the United States), **Stephen Y. Chou** (citizen of the United States), **Leonard F. Pease, III** (citizen of the United States), and **Parikshit A. Deshpande** (citizen of Canada) (collectively "ASSIGNOR") residing at **50 Springdale Road, Princeton, New Jersey, 08540; 7 Foulet Drive, Princeton, New Jersey 08540; 56 Timmerman Drive, Richland, Washington 99352; and 1502 Jonathan Court, Princeton, New Jersey 08540**, respectively, have invented, developed, and/or have rights in certain technology and useful improvements in the field of **Pattern-Free Method of Making Line Gratings** (the "Technology"), which Technology is disclosed in: (1) United States Provisional Patent Application Serial No. 60/506,789, filed on September 29, 2003, and (2) United States Non-Provisional Patent Application Serial No. 10/953,906, filed on September 29, 2004 (collectively the "Patents");

AND WHEREAS Princeton University ("ASSIGNEE"), a United States Corporation having a place of business at **4 New South Building, Princeton, New Jersey 08544**, desires to acquire the entire right, title, and interest in and to the Technology and in and to the Patents;

NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) in hand and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to the Technology and in and to the Patents and all patents and patent applications claiming priority to the Patents including divisions, continuations, and continuations-in-part thereof and all reissues, reexaminations, and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every member country, and all applications for patents (including related rights such as utility-model registrations, registrations, inventor's certificates, and the like) heretofore or hereafter filed for the Technology and the Patents in any foreign countries, and all patents (including all extensions, renewals and reissues thereof) granted for the Technology and the Patents in any foreign countries;

AND WE HEREBY authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for the Technology and/or the Patents in the name of ASSIGNEE in accordance with the terms of this assignment;

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting the Technology and the Patents, sign all lawful papers, execute all divisional, continuation, continuations-in-part, substitute, reexamination, and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for the Technology and the Patents in all countries.

--- SIGNATURES BEGIN ON NEXT PAGE ---

In testimony whereof, I hereunto set my hand this 14 day of March, 2005.

William B. Russel

William B. Russel

STATE OF New Jersey)
) SS:
COUNTY OF Mersey)

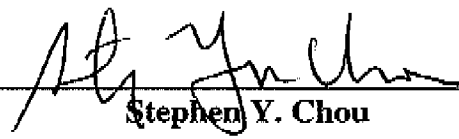
On MARCH 14, 2005, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **William B. Russel**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

Diane G. Titus

(Notary Public)

DIANE G. TITUS
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 11/27/2007

In testimony whereof, I hereunto set my hand this 4 day of March, 2005.



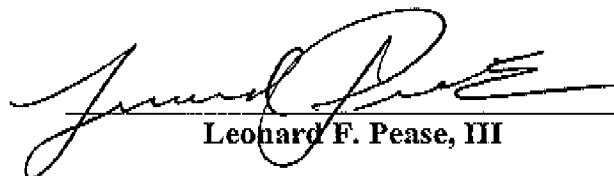
Stephen Y. Chou

STATE OF _____)
) SS:
COUNTY OF _____)

On _____, 200____, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **Stephen Y. Chou**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

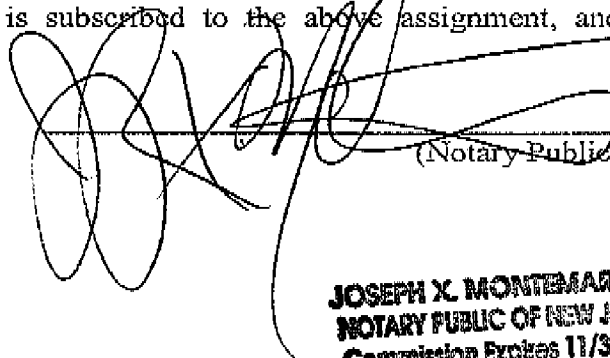
(Notary Public)

In testimony whereof, I hereunto set my hand this 18th day of January, 2005.


Leonard F. Pease, III

STATE OF New Jersey)
) SS:
COUNTY OF Mercer)

On January 18, 2005, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **Leonard F. Pease, III**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.


(Notary Public)

JOSEPH X. MONTEMARANO
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 11/3/2005

In testimony whereof, I hereunto set my hand this 28 day of March, 2005.



Parikshit A. Deshpande

STATE OF PENNSYLVANIA)
COUNTY OF PENNSYLVANIA) SS:

On March 28, 2005, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **Parikshit A. Deshpande**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

