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2. Conveyance Type: Assignment Security Agreement Change of Name License Other

3. Conveying party(ies): **Ken-ichi Murooka** Execution Date: **June 1, 2000**
 Additional name(s) of conveying party(ies) are attached

4. Receiving party(ies): **Massachusetts Institute of Technology**
77 Massachusetts Avenue NE 25-230, Cambridge, MA 02139
 Additional name(s) and address(es) attached

5. Application number(s) and/or patent number(s): If this document is being filed together with a new application, the execution date of the application is

Application Serial No. 09/578,573, filed May 25, 2000

Additional numbers attached

6. Name and Address of party to whom correspondence concerning document should be mailed:

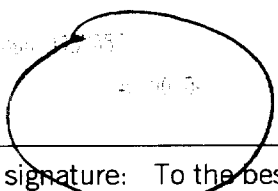
John H. Runnels
TAYLOR, PORTER, BROOKS & PHILLIPS, L.L.P.
P.O. Box 2471
Baton Rouge, LA 70821

7. Total number of applications and/or patents involved: **①**

8. Total fee (37 CFR 3.41):..... **\$ 40.00**

Enclosed Any deficiencies authorized to be charged to **Deposit Account No. 20-0096**

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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.

John H. Runnels
Reg. No. 33,451

John H. Runnels
Signature

August 23, 2000
Date

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

PATENT
REEL: 011080 FRAME: 0942

ASSIGNMENT

WHEREAS we, Henry I. Smith, a citizen of the United States of America, having a mailing address at Massachusetts Institute of Technology, Room 39-427, 60 Vassar Street, Cambridge, MA 02139; Ken-Ichi Murooka, a citizen of Japan, having a mailing address at 165-66 Higashi-Kibougaoka, Asahi-ku, Yokohama 241-0826 Japan; and Michael H. Lim, a citizen of the United States of America having a mailing address at Massachusetts Institute of Technology, Room 39-427, 60 Vassar Street, Cambridge, MA 02139; having made an invention in "Adaptive Lithography Membrane Masks," which invention is the subject of Patent Application Serial No. 09/578,573, filed May 25, 2000 (Attorney File No. Feldman Smith 9917B);

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have agreed to assign and transfer and do hereby assign and transfer unto the Massachusetts Institute of Technology, its successors and assigns, our entire right, title, and interest in and to the said invention and application, and in and to any United States patent application that claims the benefit of the filing date of said application under 35 U.S.C. § 119(e) or 35 U.S.C. § 120, including but not limited to any division, continuation, or continuation-in-part of said application, and in and to any and all Letters Patent and reissues and extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted on any of the foregoing to be held and enjoyed as fully and exclusively as they would have been by us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such acts as we lawfully may, that may be deemed necessary by the said Massachusetts Institute of Technology, its successors, assigns, and nominees, fully to secure its interest as aforesaid and to obtain or maintain Letters Patent in any and all countries;

We further authorize said Massachusetts Institute of Technology to insert the serial number of this patent application in the blank provided above once that serial number has been provided by the United States Patent and Trademark Office.

And we do hereby authorize the Commissioner of Patents and Trademarks, and any foreign counterpart to the Commissioner, to issue any and all Letters Patent which may be

granted upon any of the said applications, to the said Massachusetts Institute of Technology as the assignee of our interest therein.

In witness whereof, we have hereunto signed our names on the day and year set forth below.

Michael H. Lim

Henry I. Smith

STATE OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this ____ day of _____, 2000, before me personally appeared Michael H. Lim and Henry I. Smith, personally known to me, and known by me to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed, on the day and year aforesaid.

[SEAL]

Notary Public

Printed Name of Notary

My Commission Expires _____

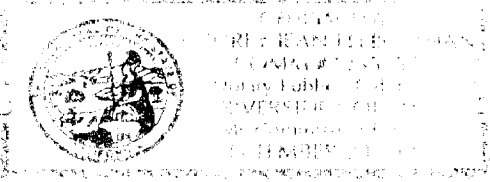
Ken-Ichi Murooka

Ken-Ichi Murooka

STATE OF CALIFORNIA
COUNTY OF RIVERSIDE

On this 1 day of June, 2000, before me personally appeared Ken-Ichi Murooka, personally known to me, and known by me to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed, on the day and year aforesaid.

[SEAL]



Audrey Jean Fleischman

Notary Public

Audrey Jean Fleischman

Printed Name of Notary

My Commission Expires Sept 29 2003