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| Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Via Facsimile Tab settings | | RECORDATION FORM COVER SHEET PATENTS ONLY | | U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office 027.0004(12218.1100) | |
| To the honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. | | | | | |
| 1. Name of conveying party(ies): Meichun Ruan Jun Shen Charles Wheeler Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 2. Name and address of receiving party(ies) Name: Arizona State University Internal Address: _____ _____ Street Address: P O Box 873511 City: Tempe State: Arizona Zip: 85287-3511 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: 12/23/2003 | | | | | |
| 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) 09/902,883 B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Brett A. Carlson Ingrassia Fisher & Lorenz, P.C. Internal Address: _____ Street Address: 7150 E. Camelback Rd., Ste. 325 City: Scottsdale State: AZ Zip: 85251 | | 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41). \$ _____ <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 50-2091 (Attach duplicate copy of this page if paying by deposit account) | | | |
| DO NOT USE THIS SPACE | | | | | |
| 9. Statement and signature. <i>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.</i> Brett A. Carlson (Reg. No. 39,928) _____ Name of Person Signing Signature Total number of pages including cover sheet, attachments, and documents: 5 January 26, 2004 date | | | | | |

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CH \$40.00 502091 09902883

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United States Utility Patent Application
Attorney Docket No.: 12218.1100 (027.0004)
First Named Inventor: MEICHUN RUAN

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") have invented:

OPTICAL MEMS SWITCHING ARRAY WITH EMBEDDED BEAM-CONFINING CHANNELS AND METHOD OF OPERATING SAME

for which application for Letters Patent of the United States:

- ☐ has been executed on even date herewith;
- ☐ executed on _____;
- ☒ was filed on July 11, 2001 and assigned U.S. Application Serial No. 09/902,883 ;

AND WHEREAS, Arizona State University, a ☐ corporation; ☒ non-profit organization; individual ☐ having a place of business at P.O. Box 873511, Tempe, Arizona 85287-3511, (hereinafter "ASSIGNEE"), and successors, assigns, and legal representatives, is desirous of acquiring an interest therein;

AND WHEREAS, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, or like document;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the aforesaid application, to the invention as described in the aforesaid application, and to any formal application which may be filed based in whole or in part on the aforesaid application, in the United States and all foreign countries, together with the right of priority under any international agreements to which the United States currently adheres and adheres to in the future, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND ASSIGNOR HEREBY AGREES to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention; and, without further remuneration, to provide all reasonable assistance and execute

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any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

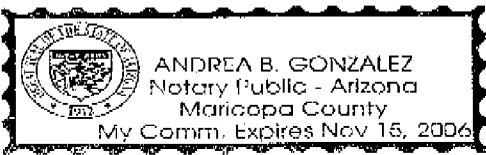
ASSIGNOR AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the invention or improvements therein, and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

Ruan, Meichun
Inventor's Signature

Date: 12-23-2003

MEICHUN RUAN
Inventor's Printed Name



STATE OF ARIZONA)

COUNTY OF _____)

On this 23 day of December, 2003, before me personally came the above named Meichun Ruan who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC
My Commission Expires: November 15, 2006

[Signature]
Inventor's Signature

Date: 12/23/03

JUN SHEN
Inventor's Printed Name



STATE OF ARIZONA)

COUNTY OF _____)

On this 23 day of December, 2003, before me personally came the above named Jun Shen who is personally known by me or proved to me on the basis of

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satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Charles Wheeler NOTARY PUBLIC
Inventor's Signature My Commission Expires: November 15, 2006
Date: 12/23/03

CHARLES WHEELER
Inventor's Printed Name

STATE OF ARIZONA)
COUNTY OF Maricopa)



On this 23 day of December, 2003, before me personally came the above named Charles Wheeler who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC
My Commission Expires: November 15, 2006