

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| 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>Eric Mazur</td><td>09/21/2005</td></tr><tr><td>Mengyan Shen</td><td>09/21/2005</td></tr></tbody></table> | Name                                     | Execution Date | Eric Mazur          | 09/21/2005 | Mengyan Shen | 09/21/2005 |  |
| Name  | Execution Date                           |                |                     |            |              |            |  |
| Eric Mazur  | 09/21/2005                               |                |                     |            |              |            |  |
| Mengyan Shen  | 09/21/2005                               |                |                     |            |              |            |  |
| RECEIVING PARTY DATA  |  |                |                     |            |              |            |  |
| Name:   | President and Fellows of Harvard College |                |                     |            |              |            |  |
| Street Address:   | 17 Quincy Street                         |                |                     |            |              |            |  |
| City:   | Cambridge                                |                |                     |            |              |            |  |
| State/Country:  | MASSACHUSETTS                            |                |                     |            |              |            |  |
| Postal Code:  | 02138                                    |                |                     |            |              |            |  |
| 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>12235086</td></tr></tbody></table>  | Property Type                            | Number         | Application Number: | 12235086   |              |            |  |
| Property Type   | Number                                   |                |                     |            |              |            |  |
| Application Number:   | 12235086                                 |                |                     |            |              |            |  |
| CORRESPONDENCE DATA   |  |                |                     |            |              |            |  |
| Fax Number:   | (617)432-2788                            |                |                     |            |              |            |  |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |  |                |                     |            |              |            |  |
| Phone:  | 617-432-0454                             |                |                     |            |              |            |  |
| Email:  | john_welsh@hms.harvard.edu               |                |                     |            |              |            |  |
| Correspondent Name:   | Anne Craig                               |                |                     |            |              |            |  |
| Address Line 1:   | 1350 Massachusetts Avenue                |                |                     |            |              |            |  |
| Address Line 2:   | Harvard University, Office of Tech. Dev. |                |                     |            |              |            |  |
| Address Line 4:   | Cambridge, MASSACHUSETTS 02138           |                |                     |            |              |            |  |
| ATTORNEY DOCKET NUMBER:   | 2536                                     |                |                     |            |              |            |  |
| NAME OF SUBMITTER:  | Anne Craig                               |                |                     |            |              |            |  |
| Total Attachments: 5<br>source=Assignment 11_196,929#page1.tif<br>source=Assignment 11_196,929#page2.tif  |  |                |                     |            |              |            |  |

OP \$40.00 12235086

500692043

PATENT  
REEL: 021768 FRAME: 0947

source=Assignment 11\_196,929#page3.tif

source=Assignment 11\_196,929#page4.tif

source=Assignment 11\_196,929#page5.tif

**PATENT**

**REEL: 021768 FRAME: 0948**

**Assignment**

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: Sept. 29, 2005 Signature: [Signature] (Reza Mollaaghababa)

**ASSIGNMENT BY INVENTORS**

**THIS ASSIGNMENT**, made this 21<sup>st</sup> day of Sept, 2005, by Eric Mazur and Mengyan Shen (hereinafter referred to as Assignors), residing at 57 Lowell Road, Concord, Massachusetts 01742; and 1260 Massachusetts Avenue, #8, Arlington, Massachusetts 02476, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in FEMTOSECOND LASER-INDUCED FORMATION OF SUBMICROMETER SPIKES ON A SEMICONDUCTOR SUBSTRATE, set forth in a Patent application for Letters Patent of the United States, already filed on August 4, 2005 as U.S. Application No. 11/196,929; and

**WHEREAS**, PRESIDENT & FELLOWS OF HARVARD COLLEGE, a Massachusetts educational and charitable corporation commonly known as Harvard University, having its principal place of business at 17 Quincy Street, Cambridge, Massachusetts (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or

terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply

with the rules of the United States Patent and Trademark Office for recordation of this document:

NUTTER MCCLENNEN & FISH LLP

All practitioners at Customer Number 021125

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Eric Mazur

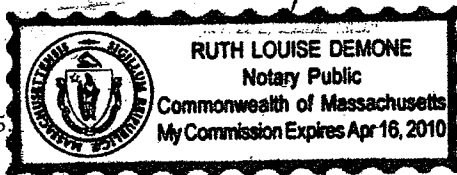
Eric Mazur

Date: 9/21/2005

On this 21<sup>st</sup> day of Sept, 2005 before me, the undersigned notary public, personally appeared Eric Mazur, proved to me through satisfactory evidence of identification, which were MA Driver's License, to be the person whose name is signed on the preceding or attached document, and Acknowledged to me that he signed it voluntarily for its stated purpose.

Ruth Louise Demone (official signature and seal of notary)

1459865



PATENT

REEL: 021768 FRAME: 0952

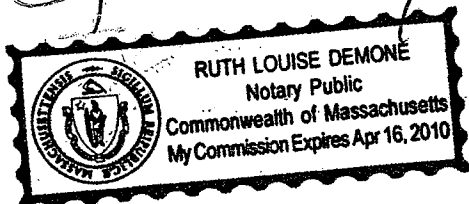
*Mengyan Shen*

Mengyan Shen

Date: 9/21/2005

On this 21<sup>st</sup> day of Sept, 2005 before me, the undersigned notary public, personally appeared Mengyan Shen, proved to me through satisfactory evidence of identification, which were Passport, to be the person whose name is signed on the preceding or attached document, and Acknowledged to me that he signed it voluntarily for its stated purpose.

*Ruth Louise Demone* (official signature and seal of notary)



1459865.1