

03-13-2000



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To the Honorable Commissioner of Patents and Trademarks, U.S. Department of Commerce, Washington, DC 20540. Attached original documents or copy thereof.

1. Name of conveying party(ies):
Javad J. SAHBARI

Additional names(s) of conveying party(ies) Yes No

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

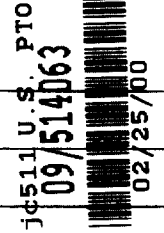
Name: Shipley Company, L.L.C.

Address: 455 Forest Street

City: Marlborough State/Prov.: MA

Country: U.S.A. ZIP: 01752

Additional name(s) & address(es) Yes No



3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: 2/24/00

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: 2/24/00

A. Patent Application No. 03/07/0000 SPONT 09000902 09514063 Filing date 02 FC:581 40.00 GP

Additional numbers

B. Patent No.(s)

Yes No

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

Name: S. Matthew Cairns

Registration No. 42,378

Address: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
130 Water Street

City: Boston State/Prov.: MA

Country: U.S.A. ZIP: 02109

6. Total number of applications and patents involved: **1**

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:
04-1105

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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.

S. Matthew Cairns [Signature] 2/25/2000

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and **3**

Attorney Docket No. 50670

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ASSIGNMENT

WHEREAS, I, Javad J. Sahbari of Sunnyvale, California, (hereinafter referred to as "Assignor"), have invented certain new and useful improvements in "PLASMA ETCHING RESIDUE REMOVAL", for which an application for United States Letters Patent with the same title shall be filed herewith receiving Serial No. _____, and a filing date of _____; and

WHEREAS, Shipley Company, L.L.C. located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignor has assigned and transferred, and does hereby assign and transfer to the Assignee, its successors and assigns, his entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor also has assigned and transferred, and does hereby assign and transfer to the Assignee, its successors and assigns, his entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

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The Assignor also hereby grants the law firm of Dike, Bronstein, Roberts & Cushman LLP 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 documents.

IN WITNESS WHEREOF, the Assignor has caused this Assignment to be executed.

Dated this 24th day of February, 2000.



Javad J. SAHBARI