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U.S DEPARTMENT OF COMMERCE Patent and Trademark Office

Docket No. 01.093.1008

To the Honorable Assistant Commissioner for Patents

| | glon, D.C. 20231 |
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| Please record the attached | original document(s) or copy thereof. |
| 1. Name of conveying party(ies): GENERAL IONEX CORP. 19 Graf Street Newburyport, Massachusetts 01950 Additional name(s) of conveying party(ies) attached? □ Yes ☒ No 3. Nature of conveyance: ☑ Assignment □ Merger □ Security Agreement □ Change of Name □ Other Execution Date: November 20, 1998 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution | 2. Name and address of receiving party(ies): Name: VARIAN ASSOCIATES, INC. Internal Address: Legal Department M/S E-339 Street Address: 3100 Hansen Way City: Palo Alto State: California ZIP: 94304 Additional name(s) & address(es) attached? □ Yes № No |
| A. Patent Application No.(s) 03/1998 SBURNS 00000258 220255 4712012 | B. Patent No.(s) 4,712,012, 4,553,069 |
| Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 2 |
| Name:Patti D. Selan Internal Address:VARIAN ASSOCIATES, INCLegal Department M/S E-339 Street Address:3100 Hansen Way City:Palo Alto | Total fee (37 CFR 3.41)\$ 80.00 Authorized to be charged to deposit account Copy of this sheet enclosed for accounting purposes 8. Deposit account number: 22-0255 |
| | USE THIS SPACE |
| Statement and signature. To the best of my knowledge and belief, the foregoing information is tr | rue and correct and any attached copy is a true copy of the original documen |
| Hunter L. Auyang, Reg. No. 33,224 Name of Person Signing Signar | November 25, 1998 ture November 25, 1998 |
| Total number of pages including cover sheet, attachments and documen | |

PATENT REEL: 9605 FRAME: 0705

ASSIGNMENT

WHEREAS, GENERAL IONEX CORP., a corporation organized and existing under the laws of the State of Massachusetts and having its principal office at 19 Graf Street, Newburyport, Massachusetts, 01950, (hereinafter "ASSIGNOR") is the record owner of the below-listed patents and/or patent applications:

WHEREAS, ASSIGNOR desires to assign to ASSIGNEE all of ASSIGNOR's right, title and interest in and to the below-listed patents and/or patent applications:

U.S. Patent
4,712,012
4,553,069
Charge Conversion Unit For Negative Ion Source Wafer Holding Apparatus For Ion Implantation

NOW THEREFORE, for One Dollar (\$1.00) and other valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over to ASSIGNEE, all of ASSIGNOR's entire right, title and interest in and to the patents and patent applications aforesaid, and to the inventions therein disclosed and claimed and to all international priority rights relating thereto throughout the world and in and to any continuations, divisions, reissues, reexaminations and extensions thereof along with any and all rights of enforcement with respect thereto, including all rights to sue or recover for the infringement thereof, and any and all choses in action related thereto, and that the ASSIGNEE may apply for and receive patents in its own name wherever so permitted by law and that ASSIGNOR shall, when requested by the ASSIGNEE, execute all rightful oaths, assignments, and powers of attorney, including but not limited to the right to file and prosecute in its own name, wherever so permitted by law, patent applications, including corresponding applications, and to claim priority of patent applications, including corresponding applications, and to claim priority of patent applications pursuant to the Paris Convention, to the ASSIGNEE and to agents and legal representatives of the ASSIGNEE and all other papers necessary and proper to carry out the intent and purpose of this Assignment of Patent.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized representative on this 20 day of wow., 1998.

GENERAL IONEX CORP. (ASSIGNOR)

By: William W.R. Elder
Title: President

State of California)
) s.s.;
County of Santa Clara)

On the Hay of NOVEMBEN, 1998, before me, Shella Halling, Notary Public, personally appeared will an will an will be personally known to me or proved to me on the basis of satisfactory evidence to be the personal whose nameral same subscribed to the within instrument and acknowledged to me that he's he they executed the same in his/her/their authorized capacitys, and that by his/her/their signature on the instrument the personal or the entity upon behalf of which the personal acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary

SHEILA HOLLIMON
COMM. #1060288 S
NOTARY PUBLIC-CALIFORMA S
SANTA CLARA COUNTY
My Comm. Exp. Jan. 22, 1999 J

RECORDED: 11/30/1998

PATENT REEL: 9605 FRAME: 0706