

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shengwu CHANG	02/18/2006
Isao TSUNODA	04/10/2006
Nibihiro TOKORO	02/17/2006
Dennis RODIER	02/23/2006
Joseph C. OLSON	02/08/2006
Donna SMATLAK	04/16/2006
Damian BRENNAN	09/29/2007
William BINTZ	03/25/2006

RECEIVING PARTY DATA

Name:	Varian Semiconductor Equipment Associates, Inc.
Street Address:	35 Dory Road
City:	Gloucester
State/Country:	MASSACHUSETTS
Postal Code:	01930

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11241406

CORRESPONDENCE DATA

Fax Number: (978)281-3152
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 978-282-5813
Email: constance.ouellette@vsea.com
Correspondent Name: Scott Richard Faber, Esq.
Address Line 1: 35 Dory Road
Address Line 2: Varian Semiconductor Equipment Associate
Address Line 4: Gloucester, MASSACHUSETTS 01930

PATENT

500382271

REEL: 020005 FRAME: 0523

CH \$40.00 11241406

ATTORNEY DOCKET NUMBER:	2005-055
NAME OF SUBMITTER:	Scott R. Faber, Esq.
<p>Total Attachments: 5</p> <p>source=Assignment#page1.tif</p> <p>source=Assignment#page2.tif</p> <p>source=Assignment#page3.tif</p> <p>source=Assignment#page4.tif</p> <p>source=Assignment#page5.tif</p>	

PATENT ASSIGNMENT FORM

For and in consideration of good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor acknowledges his/her prior and ongoing obligation to sell, assign, and transfer, and agrees to sell, assign, and transfer the entire world wide right, title and interest for the United States and all foreign countries, in and to any and all inventions and improvements conceived during and within the scope of his/her employment, and further acknowledges that he/she has sold, assigned, and transferred, and hereby sells, assigns, and transfers, unto:

VARIAN SEMICONDUCTOR EQUIPMENT ASSOCIATES, INC. ("VSEA")

Gloucester, Massachusetts 01930

a corporation of Massachusetts, and VSEA desires to acquire all right, title, and interest, in and to the certain inventions (identified below), applications, and any United States and foreign patents to be obtained therefor relating to:

Title of Invention for **METHOD, SYSTEM, AND APPARATUS FOR IMPROVING DOPING UNIFORMITY IN HIGH-TILT ION IMPLANTATION**

United States Patent

as set forth in United States Patent Application executed by each undersigned inventor on the date indicated by each inventor signature below, and further identified by **Attorney Docket Number VSEA 2005-055**;

(select one): executed concurrently herewith ☒ Serial No. 11/241,406 Filed on September 30, 2005

for and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States and foreign patents and all rights of priority to be obtained therefor which may issue on any such application or for said invention therein disclosed, including any and all reissues or extensions thereof, to be held and enjoyed by, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to VSEA, its successors and assigns, in accordance herewith;

Each undersigned inventor warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests hereby sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each undersigned inventor further covenants and agrees that he/she, upon the request and at the expense of the VSEA, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said inventions and improvements, communicate to the VSEA all facts known to the undersigned relating to such inventions and improvements and the history thereof; and perform all other lawful acts deemed necessary or desirable by VSEA, and its legal representatives, to secure, maintain, and enforce patent protection for such inventions and improvements and for vesting title to such inventions and improvements in the VSEA, and in particular to perfect title to said above-identified certain inventions, and applications including divisions and continuations thereof, and any and all Letters Patent which may be granted therefor or thereon, including reissues, extensions, or counterparts;

Each undersigned inventor hereby grants the VSEA and the firm of the power to insert in this Assignment any further identification which may be necessary or desirable for recordation of this Assignment.

This assignment is governed by the substantive laws of the state of Massachusetts.

Executed by Inventor 1 of 8

Signature: _____ Date: _____
Shengwu Chang

Executed by Inventor 2 of 8

Signature: _____ Date: _____
Isao Tsunoda

Executed by Inventor 3 of 8

Signature: _____ Date: _____
Nobihito Tokoro

Executed by Inventor 4 of 8

Signature: _____ Date: _____
Dennis Rodier

Executed by Inventor 5 of 8

Signature: _____ Date: _____
Joseph C. Olson

Executed by Inventor 6 of 8

Signature: Donna L. Smatlak Date: 4/16/06
Donna Smatlak

Executed by Inventor 7 of 8

Signature: _____ Date: _____
Damian Brennan

Executed by Inventor 8 of 8

Signature: _____ Date: _____
William Bintz

Executed by Inventor 1 of 8

Signature: _____ Date: _____
Shengwu Chang

Executed by Inventor 2 of 8

Signature: _____ Date: _____
Isao Tsunoda

Executed by Inventor 3 of 8

Signature: _____ Date: _____
Nobihiro Tokoro

Executed by Inventor 4 of 8

Signature: _____ Date: _____
Dennis Rodier

Executed by Inventor 5 of 8

Signature: _____ Date: _____
Joseph C. Olson


Executed by Inventor 6 of 8

Signature: _____ Date: _____
Donna Smatlak

Executed by Inventor 7 of 8

Signature: _____ Date: _____
Damian Brennan

Executed by Inventor 8 of 8

Signature:  Date: 3/25/06
William Bintz

Executed by Inventor 1 of 8

Signature: _____ Date: _____
Shengwu Chang

Executed by Inventor 2 of 8

Signature: *Isao Tsunoda* Date: *April 10, 2006*
Isao Tsunoda

Executed by Inventor 3 of 8

Signature: _____ Date: _____
Nobihito Tokoro

Executed by Inventor 4 of 8

Signature: _____ Date: _____
Dennis Rodier

Executed by Inventor 5 of 8

Signature: _____ Date: _____
Joseph C. Olson

Executed by Inventor 6 of 8

Signature: _____ Date: _____
Donna Smatlak

Executed by Inventor 7 of 8

Signature: _____ Date: _____
Damian Brennan

Executed by Inventor 8 of 8

Signature: _____ Date: _____
William Bintz

Executed by Inventor 1 of 8

Signature:  Date: 2/8/2006
Shengwu Chang

Executed by Inventor 2 of 8

Signature: _____ Date: _____
Isao Tsunoda

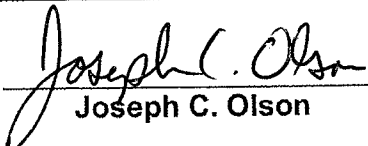
Executed by Inventor 3 of 8

Signature:  Date: 2/17/2006
Nobuhiro Tokoro

Executed by Inventor 4 of 8

Signature:  Date: 2-23-06
Dennis Rodier

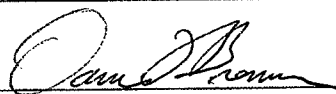
Executed by Inventor 5 of 8

Signature:  Date: 2/8/06
Joseph C. Olson

Executed by Inventor 6 of 8

Signature: _____ Date: _____
Donna Smatlak

Executed by Inventor 7 of 8

Signature:  Date: 9/29/07
Damian Brennan

Executed by Inventor 8 of 8

Signature: _____ Date: _____
William Bintz