

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>Jonathan Gerald ENGLAND</td><td>06/24/2007</td></tr><tr><td>Richard Stephen MUKA</td><td>06/28/2007</td></tr><tr><td>Scott C. HOLDEN</td><td>07/02/2007</td></tr></tbody></table>		Name	Execution Date	Jonathan Gerald ENGLAND	06/24/2007	Richard Stephen MUKA	06/28/2007	Scott C. HOLDEN	07/02/2007		
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<table border="1"><tr><td>Name:</td><td>Varian Semiconductor Equipment Associates, Inc.</td></tr><tr><td>Street Address:</td><td>35 Dory Road</td></tr><tr><td>City:</td><td>Gloucester</td></tr><tr><td>State/Country:</td><td>MICHIGAN</td></tr><tr><td>Postal Code:</td><td>01930</td></tr></table>		Name:	Varian Semiconductor Equipment Associates, Inc.	Street Address:	35 Dory Road	City:	Gloucester	State/Country:	MICHIGAN	Postal Code:	01930
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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>11778335</td></tr></tbody></table>		Property Type	Number	Application Number:	11778335						
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CORRESPONDENCE DATA											
Fax Number: (202)778-2201 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Total Attachments: 6 source=DOC020#page1.tif											

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ASSIGNMENT

WHEREAS, the undersigned, to wit:

- (1) Jonathan Gerald ENGLAND
- (2) Richard Stephen MUKA
- (3) Scott C. HOLDEN

(hereinafter collectively ASSIGNOR), has/have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"TECHNIQUES FOR TEMPERATURE-CONTROLLED ION IMPLANTATION"

- (X only one) (a) _____ which was executed concurrently herewith and is being filed herewith in the United States Patent and Trademark Office;
- (b) _____ which was executed on _____, 20____, and is being filed herewith in the United States Patent and Trademark Office;
- (c) X which was filed as U.S. Patent Application No. 11/778,335 on July 16, 2007;

AND WHEREAS, Varian Semiconductor Equipment Associates, Inc. (hereinafter ASSIGNEE), a corporation organized and existing under the laws of the State of Delaware, and having its principal place of business at 35 Dory Road, Gloucester, MA 01930, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of

said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNOR also does hereby covenant that it has the full right to convey the entire right, title, and interest herein assigned, and that it has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to make application for and obtain any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, or extensions of said application, or any application on said invention, or any patent issuing therefor or therefrom;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal

representatives, communicate to said ASSIGNEE, its successors, assigns, and legal representatives, any known facts relating to said invention or said application or any patent issuing therefor or therefrom, and testify as to the same in any interference or other litigation proceeding when requested to do so, and aid said ASSIGNEE, its successors, assigns, and legal representatives, in obtaining and enforcing proper protection for said invention in all countries;

ASSIGNOR also does hereby grant the firm of Hunton & Williams LLP of 1900 K Street, N.W., Washington, D.C., 20006-1109, or its agents, the power to insert on this assignment any further information, including but not limited to application number(s) and filing date(s), which may be necessary or desirable in order to comply with any rule or request of the United States Patent and Trademark office for the purposes of recording this document.

ASSIGNOR also does now hereby execute this document on the date(s) indicated below:

(1) IN WITNESS WHEREOF, I have hereunto set my hand and seal
this 27th day of June, 2007.

Sign: J. England
Print Name: Jonathan Gerald ENGLAND
Print Address: Broadbridge Place
Church Road
Broadbridge Heath
Horsham, West Sussex
RH12 3LD
United Kingdom

COMMONWEALTH/STATE OF Massachusetts
COUNTY OF Essex

Before me, a Notary Public in and for the
Commonwealth/State of Massachusetts did personally appear the
above-named Jonathan Gerald ENGLAND, personally known to me
and/or proved to me on the basis of satisfactory evidence to be
the person who signed and sealed the foregoing instrument and
acknowledged the same to be his or her own free act and deed,
this 27 day of June, 2007.

Sign: Rita G. Budzinski
Notary Public
My Commission Expires: May 11, 2012



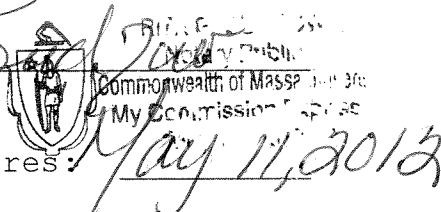
(2) IN WITNESS WHEREOF, I have hereunto set my hand and seal
this 28 day of June, 2007.

Sign: Richard Stephen Muka
Print Name: Richard Stephen MUKA
Print Address: 32 Candlewood Drive
Topsfield, MA 01983

COMMONWEALTH/STATE OF Massachusetts
COUNTY OF Essex

Before me, a Notary Public in and for the
Commonwealth/State of Massachusetts, did personally appear the
above-named Richard Stephen MUKA, personally known to me and/or
proved to me on the basis of satisfactory evidence to be the
person who signed and sealed the foregoing instrument and
acknowledged the same to be his or her own free act and deed,
this 28 day of June, 2007.

Sign: W. G. B. [Signature]
Notary Public
My Commission Expires: May 11, 2012



(3) IN WITNESS WHEREOF, I have hereunto set my hand and seal
this 2nd day of July, 2007.

Sign: [Signature]

Print Name: Scott C. HOLDEN

Print Address: ~~44 Minebrook Rd~~ 36 Henry Ave
~~Sudbury, MA 01776~~ Melrose, MA 02176
SAJ

COMMONWEALTH/STATE OF

Massachusetts

COUNTY OF

Essex

Before me, a Notary Public in and for the
Commonwealth/State of Massachusetts did personally appear the
above-named Scott C. HOLDEN, personally known to me and/or
proved to me on the basis of satisfactory evidence to be the
person who signed and sealed the foregoing instrument and
acknowledged the same to be his or her own free act and deed,
this 2nd day of July, 2007.

Sign: [Signature]

Notary Public

My Commission Expires

