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FORM PTO-1595  
(REV 6-93)

SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

OMB No. 0651-011 (exp. 4/94)

99-SM6-194



101428348

To the Honorable Commissioner of Patents and Trademarks, please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Victor M. Benveniste  
William F. DiVergilio  
Frank SinclairAdditional name(s) of conveying  
party(ies) attached? [ ] Yes [ X ] No

## 3. Nature of conveyance:

[ X ] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other \_\_\_\_\_

Execution Date: July 19 and July 24, 2000

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

Name: Axcelis Technologies, Inc.

Internal Address: \_\_\_\_\_

Street Address: 55 Cherry Hill Drive

City: Beverly

State/Country: Massachusetts ZIP: 01915-1053

Additional name(s) &amp; address(es) attached? [ ] Yes [ X ] No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: July 19 and 24, 2000

A. Patent Application No.(s)

B. Patent No.(s)

Additional Numbers attached? [ ] Yes [ X ] No

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

Name: Thomas G. Eschweiler

Internal Address: \_\_\_\_\_

Amin, Eschweiler &amp; Turocy, LLP

Street Address: 24th Floor, National City Center

1900 East 9th Street

City: Cleveland

State: Ohio

ZIP: 44114

## 6. Total number of applications and patents involved: [ 1 ]

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

[ X ] Enclosed

[ X ] Authorized to be charged to deposit account

## 8. Deposit account number:

50-1063

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 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.

Thomas G. Eschweiler

Name of Person Signing

Signature

July 25, 2000

Date

Reg. No. 36,981 Total number of pages including cover sheet attachments, and document: [ 5 ]

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 010972 FRAME: 0484

## ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

Victor M. Benveniste  
8 Harbor Heights  
Gloucester, Massachusetts 01930

William F. DiVergilio  
10 Lakeview Avenue  
Beverly, Massachusetts 01915

Frank Sinclair  
14 Royal Street  
Quincy, Massachusetts 02170

NOW, THEREFORE, for and in consideration of our employment and the salary or wages paid to us by Axcelis Technologies, Inc., we, Victor M. Benveniste, William F. DiVergilio, and Frank Sinclair, by these present do sell, assign, and transfer unto said Axcelis Technologies, Inc., a corporation organized and existing under the laws of the State of Delaware, having its principal place of business at 55 Cherry Hill Drive, Beverly, Massachusetts 01915-1053, is desirous of acquiring an interest therein, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions entitled

### METHOD AND SYSTEM FOR MICROWAVE EXCITATION OF PLASMA IN AN ION BEAM GUIDE

for which application for United States Letters Patent has been filed on \_\_\_\_\_ under Serial No. \_\_\_\_\_, or was executed by the undersigned on the date below and is being filed concurrently herewith, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and

enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Signed:

Date:



Victor M. Benveniste

7/19/00

**CERTIFICATE OF ACKNOWLEDGMENT**

State of Massachusetts

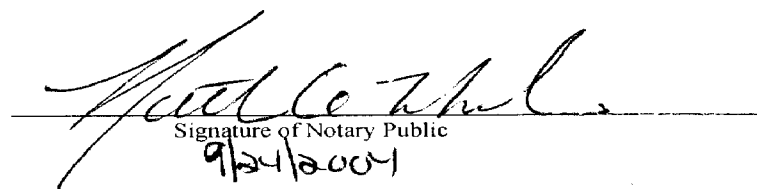
County of Essex

On 7/19/00 before me, Kathleen A. Lechlen Notary Public  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Victor M. Benveniste  
Name(s) of Signer(s)

☒ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
Signature of Notary Public  
9/24/2004

9/24/2004

Signed:

Date:

William F. DiVergilio 7/24/00  
William F. DiVergilio

**CERTIFICATE OF ACKNOWLEDGMENT**

State of Massachusetts

County of Essex

On 7/24/00 before me, Kathleen A. Whalen Notary Public  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared William F. DiVergilio  
Name(s) of Signer(s)

☒ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Kathleen A. Whalen  
Signature of Notary Public 9/24/2000

9/24/00

Signed:

Date:

Frank Sinclair  
Frank Sinclair

8/28/00

**CERTIFICATE OF ACKNOWLEDGMENT**

State of Massachusetts

County of Essex

On \_\_\_\_\_ before me, Kathleen A. Whelan, Notary Public  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Frank Sinclair  
Name(s) of Signer(s)

☒ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Kathleen A. Whelan  
Signature of Notary Public 9/24/2004

9/24/2004

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