

06-17-2002

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OMB No. 0651-0027 (exp. 5/31/2002)

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

1. Name of conveying party(ies):
 Ralph Albano, Ivan L. Berry, III., Orlando Escorcia,
 Qingyuan Han, Nick Sbrockey and Carlo Waldfried
 6-11-02
 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
 Name: Axcelis Technologies, Inc.
 Internal Address: _____
 Street Address: 55 Cherry Hill Drive
 City: Beverly State: MA Zip: 01915
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other Corrective Assignment to add inventors
 name previously recorded at Reel/Frame 012718/0575
 Execution Date: _____

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: _____
 A. Patent Application No.(s)
09/952,649
 Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Killworth, Gottman, Hagan & Schaeff, LLP
 Internal Address: _____
 Street Address: One Dayton Centre
One South Main Street, Suite 500
 City: Dayton State: OH Zip: 45402

6. Total number of applications and patents involved: 1
 7. Total fee (37 CFR 3.41).....\$ 40.00
 Enclosed
 Authorized to be charged to deposit account
 8. Deposit account number:

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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.
 Brian L. Smiler _____ 05/30/2002
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 13

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PATENT
 REEL: 012981 FRAME: 0684

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

1. Name of conveying party(ies):
Ralph Albano
Ivan L. Berry, III
Orlando Escorcia
Qingyuan Han
Carlo Waldfried
Additional name(s) of conveying party(ies) attached? Yes No

3-18-02

2. Name and address of receiving party(ies)
Name: Axcelis Technologies, Inc.
Internal Address: _____
Street Address: 55 Cherry Hill Drive
City: Beverly State: MA Zip: 01915
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: November 7, 2001

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: _____
A. Patent Application No.(s)
09/952,649
Additional numbers attached? Yes No

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Brian L. Smiler
Name of Person Signing
Signature
Date
March 8, 2002

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ASSIGNMENT

WHEREAS, we, **RALPH ALBANO** of Columbia, MD, **IVAN L. BERRY, III** of Ellicott City, MD, **ORLANDO ESCORCIA** of Falls Church, VA, **QINGYUAN HAN** of Columbia, MD, **NICK SBROCKEY** of Gaithersburg, MD and **CARLO WALDFRIED** of Falls Church VA, invented certain new and useful **PLASMA CURING PROCESS FOR POROUS LOW-K MATERIALS** for which we executed an application for a United States Patent and for which said application for United States Patent was filed on September 14, 2001, under

☒ Patent Application Serial No. 09/952,649

☒ Attorney Docket No. AXC 0001 IA;

WHEREAS, we hereby authorize and request the attorney(s) and/or agent(s) empowered to act on our behalf in the aforementioned application, to insert above the filing date and application number of said application, when known;

AND WHEREAS, Axcelis Technologies, Inc., a corporation of the State of Delaware, with a place of business at 55 Cherry Hill Drive, Beverly, MA 01915, hereinafter called the Assignee, is desirous of acquiring the entire right, title and interest in and to said application and the inventions therein disclosed and any letters patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, receipt whereof is hereby acknowledged, we hereby sell, assign and transfer unto said Assignee, its successors and assigns, the entire right, title and interest in and to said application and any divisions or continuations thereof, and the inventions therein disclosed, and any improvements thereon, and any patent or patents that may be issued or reissued thereon, and we hereby authorize and request the Commissioner of Patents and Trademarks to issue any letters patent thereon, and reissues thereof, to said Assignee, its successors and assigns; and we hereby authorize said Assignee, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the patent or patents issued thereon; and we hereby agree that, upon request, we will sign all papers, and make all rightful oaths, and do all acts which said Assignee, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any patents issued or reissued thereon.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of November, 2001.

Ralph Albano
RALPH ALBANO

State of Maryland)
) ss
County of Montgomery)

On this 7th day of November, 2001 before me a Notary Public in and for the above County and State, personally appeared the above named **RALPH ALBANO** personally known to me, and acknowledged the execution of the foregoing assignment as a free act and deed for the purpose herein set forth.

Karey Faith Herremian
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of November, 2001.

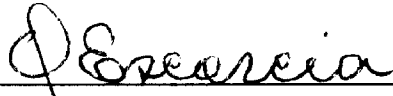
Ivan L. Berry, III
IVAN L. BERRY, III

State of Maryland)
) ss
County of Montgomery)

On this 7th day of November, 2001 before me a Notary Public in and for the above County and State, personally appeared the above named **IVAN L. BERRY, III** personally known to me, and acknowledged the execution of the foregoing assignment as a free act and deed for the purpose herein set forth.

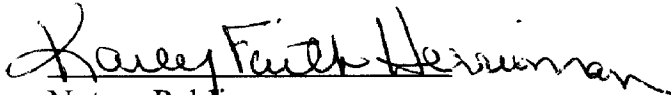
Karey Faith Herremian
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of November, 2001.


ORLANDO ESCORCIA

State of Maryland)
) ss
County of Montgomery)

On this 7th day of November, 2001 before me a Notary Public in and for the above County and State, personally appeared the above named **ORLANDO ESCORCIA** personally known to me, and acknowledged the execution of the foregoing assignment as a free act and deed for the purpose herein set forth.

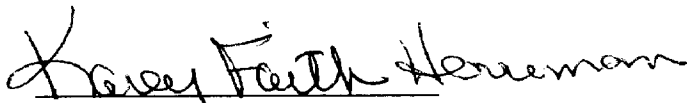

Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of November, 2001.


QINGYUAN HAN

State of Maryland)
) ss
County of Montgomery)

On this 7th day of November, 2001 before me a Notary Public in and for the above County and State, personally appeared the above named **QINGYUAN HAN** personally known to me, and acknowledged the execution of the foregoing assignment as a free act and deed for the purpose herein set forth.


Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13th day of November, 2001.

Nick Brockey
NICK SBROCKEY

State of Maryland)
) ss
County of Montgomery)

On this _____ day of _____, 2001 before me a Notary Public in and for the above County and State, personally appeared the above named **NICK SBROCKEY** personally known to me, and acknowledged the execution of the foregoing assignment as a free act and deed for the purpose herein set forth.

Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of November, 2001.

C.W.
CARLO WALDFRIED

State of Maryland)
) ss
County of Montgomery)

On this 7th day of November, 2001 before me a Notary Public in and for the above County and State, personally appeared the above named **CARLO WALDFRIED** personally known to me, and acknowledged the execution of the foregoing assignment as a free act and deed for the purpose herein set forth.

Karey Faith Horvath
Notary Public