

01-04-2006

Form PTO-1595 (Rev. 09/04)
USPS No. 0651-8027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office103150669
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Ronald N. Reece
Serguei I. Kondratenko
Geumjoo Ra
Louis P. Wainwright
Gary N. Cai

Execution Date(s) Nov. 21, Nov. 16, Nov. 14, Nov. 21 & Nov. 14, 2005

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

Name: Axcelis Technologies, Inc.

Internal Address: _____

Street Address: 108 Cherry Hill DriveCity: BeverlyState: MassachusettsCountry: United States Zip: 01915-1053Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/273,039 Filed November 14, 2005

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Thomas G. Eschweiler

Internal Address: _____

Eschweiler & Associates, LLCStreet Address: 629 Euclid Avenue, Suite 1210City: ClevelandState: Ohio Zip: 44114Phone Number: (216) 502-0600Fax Number: (216) 502-0601

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____b. Deposit Account Number 50-1733Authorized User Name Thomas G. Eschweiler

9. Signature:

Signature

December 21, 2005

Date

Thomas G. Eschweiler, Reg. No. 36.981

Name of Person Signing

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

4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

12/28/2005 HVUONG1 00000039 11273039

02 FC:8021

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PATENT
REEL: 017407 FRAME: 0537

ASSIGNMENT

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

Ronald N. Reece
105 Pleasant Valley Road
Westwood, MA 02090

Serguei I. Kondratenko
29 Cedar Hill Terrace
Swampscott, MA 01907

Geumjoo Ra
2240 Turnpike Street
North Andover, MA 01845

Louis P. Wainwright
11 Webber Avenue
Beverly, MA 01915

Gary N. Cai
41 Cornell Road
Beverly, MA 01915

NOW, THEREFORE, for and in consideration of our employment and the salary or wages paid to us by Axcelis Technologies, Inc., we, Ronald N. Reece, Serguei I. Kondratenko, Geumjoo Ra, Louis P. Wainwright and Gary N. Cai, 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 108 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

**SYSTEMS AND METHODS THAT MITIGATE CONTAMINATION AND MODIFY
SURFACE CHARACTERISTICS DURING ION IMPLANTATION PROCESSES THROUGH
THE INTRODUCTION OF GASES**

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:

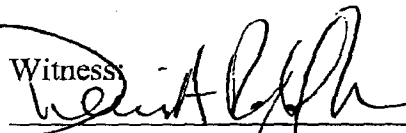


Ronald N. Reece

Date:

11/21/05

Witness:



Date:

11/21/05

Signed:

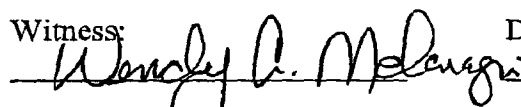


Serguei Kondratenko

Date:

11/16/2005

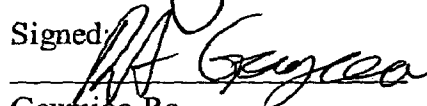
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Date:

11/16/05

Signed:

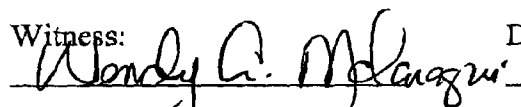


Geumjoo Ra

Date:

11/14/05

Witness:



Date:

11/14/05

Signed:

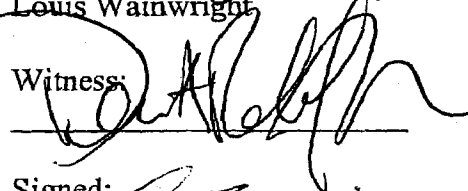


Louis Wainwright

Date:

11/21/05

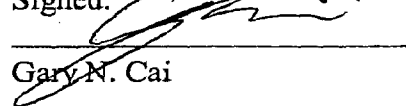
Witness:



Date:

11/21/05

Signed:



Gary N. Cai

Date:

11/14/05

Witness:

Date:

Wendy A. McLaughlin 11/14/05