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FORM PTO-1595  
(Modified)

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PATENTS

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U.S. DEPARTMENT OF  
COMMERCE  
Patent and Trademark Office  
Attorney Docket No. 16-212

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies):

Joseph Ferrara

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

Axcelis Technologies, Inc.  
55 Cherry Hill Drive  
Beverly, Massachusetts 01915

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other:Execution Date: July 9, 2002Express Mail Label No. 92860974417us  
I hereby certify that this paper is being deposited  
in U.S. Postal Service as Express Mail addressed to  
Assistant Commissioner for Patents, Trademarks7/10/02  
Karen Buzinski

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 9, 2002

A. Patent Application No(s):

B. Patent No(s):

10/192344

5. Name and address of party to whom correspondence  
concerning document should be mailed:George L. Pinchak  
WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A.  
1100 Superior Avenue, Ste. 1750  
Cleveland, Ohio 44114-25186. Total number of applications and patents involved: 17. Total fee (37 C.F.R. §§ 1.21(h), 3.41): \$ 40.00☒ Included with application.  
☐ Authorized to be charged to deposit account.  
☒ The Commissioner is hereby authorized to credit  
any overpayment or to charge any fee deficiencies  
under 37 C.F.R. § 1.21(h) to our deposit account.8. Deposit account number: 23-0630

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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.George L. Pinchak, Reg. No. 37,697  
Name of Person SigningWATTS 47,687 for GLP  
SignatureJuly 10, 2002  
DateTotal number of pages including cover sheet, attachments, and document: 2Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks  
BOX ASSIGNMENTS  
Washington, D.C. 2023110/192344  
07/10/02

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PATENT  
REEL: 013100 FRAME: 0084

**ASSIGNMENT**

IN CONSIDERATION of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, I, Joseph Ferrara, a citizen of the United States, and residing at 16 School Street, Middleton, MA 01949, do hereby sell, transfer, set over and assign unto Axcelis Technologies, Inc., a Delaware corporation with a principal place of business at 55 Cherry Hill Drive, Beverly, Massachusetts 01915, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention entitled ADJUSTABLE IMPLANTATION ANGLE WORKPIECE SUPPORT STRUCTURE FOR AN ION BEAM IMPLANTER, invented by me and the application for United States patent therefor, executed concurrently herewith, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said Axcelis Technologies, Inc., its successors, assigns, nominees or other legal representatives, as assignee and owner of the said entire interest, and covenant that I have full right to convey said entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and agree that I will communicate to said Axcelis Technologies, Inc., its successors, assigns, nominees or other legal representatives, all facts know to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said Axcelis Technologies, Inc., its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, I will upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and

I further covenant and agree that I will, at any time upon request, do everything legally possible to aid said Axcelis Technologies, Inc., its successors, assigns, nominees or other legal representatives, either in its or my own name, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said Axcelis Technologies, Inc., its successors, assigns, nominees or other legal representatives.

  
Joseph Ferrara

State of Massachusetts )  
County of Essex ) SS

This 9<sup>th</sup> day of July, 2002, before me personally came the above-named Joseph Ferrara to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

  
Notary Public