

03-05-2010

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

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EET

To the Director of the U.S. Patent

103590794

d documents or the new address(es) below.

**1. Name of conveying party(ies)**

IRL W. WARD

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 12/10/2008

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

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

Name: PPT RESEARCH

Internal Address:

Street Address: 450 ALLENTOWN DRIVE

City: ALLENTOWN

State: PENNSYLVANIA

Country: USA Zip: 18109

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

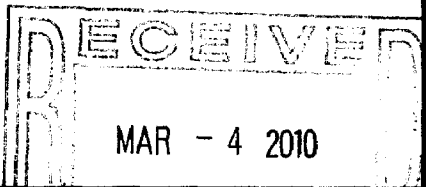
A. Patent Application No.(s)

12/319,735

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

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No



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

Name: JOHN LEZDEY

Internal Address:

Street Address: 2401 WEST BAY DRIVE

City: LARGO

State: FLORIDA Zip: 33770

Phone Number: (727) 588-0000

Fax Number: (727) 588-0002

Email Address: lezdey\_assoc@hotmail.com

**6. Total number of applications and patents involved:**

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

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

**8. Payment Information**

Deposit Account Number 12-1217

Authorized User Name JOHN LEZDEY

**9. Signature:**

*John Lezdey*  
Signature

03-01-2010

Date

JOHN LEZDEY  
Name of Person Signing

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

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1460, Alexandria, V.A. 22313-1460

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PATENT  
REEL: 024032 FRAME: 0789

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**ASSIGNMENT**

**WHEREAS I, Irl E. Ward**, (hereinafter referred to as ASSIGNOR) of 1493 Amherst Court, Bethlehem, Pennsylvania 18015 have invented certain new and useful improvements in **WAFER/INGOT CLEANING IN WIRE SAW CUTTING** for which application for United States Letters Patent has been filed under No. 12/319 735 on 1/12 / 2009; and

**WHEREAS, PPT RESEARCH**, a Pennsylvania corporation having an address of 450 Allentown Drive, Allentown, Pennsylvania, 18109, (hereinafter ASSIGNEE), is desirous of acquiring the said invention and application and any and all Letters Patent that may be obtained thereof or thereupon, and all reissues and extensions thereof,

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable considerations, to us in hand paid by the said assignee, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto the said ASSIGNEE, its successors, and assigns, the full and exclusive right, title and interest in and to the said invention and said application for Letters Patent of the United States therefore, and in and to any Division, Continuations and Continuation-in-part thereof and in and to any and all foreign applications and United States Letters Patent and reissues and extensions thereof that may be issued for the said invention to have and to hold for its own use and behoove of its successors and assigns as fully and entirely as the same might be enjoyed by us if this sale and assignment had not been made; and

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HEREBY AUTHORIZE and request the Commissioner of Patents and Trademarks to issue the said Letters Patent and any reissues and extensions thereof to the said assignee as assigns of the entire right, title and interest in and to the said invention and said application and Letters Patent issued therefore or thereupon; and

HEREBY AGREE to execute all instruments and documents within my power which may be necessary for the carrying out of this assignment in full; and to execute any divisional, continuing or continuation-in-part application or applications which may be necessary or proper to obtain full protection on the invention hereby assigned; and to execute any and all supplemental oaths and preliminary statements should the same be proper and necessary in the prosecution of the aforesaid applications; and

HEREBY FURTHER ASSIGN unto the said assignee, its successors, and assigns, the whole right, title and interest in and to the invention disclosed in the said application throughout all countries foreign to the United States, and do hereby ratify any acts of the said assignee, its successors and assigns, in applying for patents therefore in its own name in countries where such procedure is proper and do agree to execute applications for said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefore to the said assignee, its successors and assigns.

12/10/08

Date

Irl E. Ward

Irl E. Ward

PATENT

RECORDED: 03/04/2010

REEL: 024032 FRAME: 0791