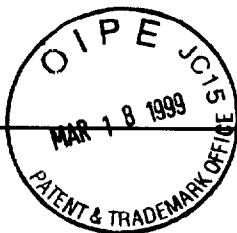


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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

RECORDATION FORM COVER SHEET

**PATENTS ONLY**

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

1. Name of conveying party(ies):  
John Liu, Robert W. Westerlund, Gary H. Bray, Terrence N. Thom, and Dhruba J. Chakrabarti

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

Alcoa Inc.  
201 Isabella Street  
Pittsburgh, Pennsylvania 15212-5858

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

Execution Date: March 10, February 8, March 2, February 8, and February 25, respectively

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

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

A. Patent Application No.(s)

( 09/208,963 filed December 10, 1998 )

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Charles Q. Buckwalter  
Address: Alcoa Inc.  
Alcoa Technical Center  
100 Technical Drive  
Alcoa Center, PA 15069

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 No. 01-1000

DO NOT USE THIS SPACE

( 04/01/1999 DNGUYEN 00000268 011000 09208963  
01 FC:581 40.00 CH )

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.

\_\_\_\_\_  
Marlene E. Lacanic  
Name of Person Signing

\_\_\_\_\_  
Marlene E. Lacanic  
Signature

\_\_\_\_\_  
March 11, 1999  
Date

Total number of pages including cover sheet, attachments and document: 5

## ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good, and valuable considerations, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, **John Liu**, of Lower Burrell, in the County of Westmoreland and State of Pennsylvania; **Robert W. Westerlund** of Bettendorf, in the County of Scott and State of Iowa; **Gary H. Bray**, of Murrys ville, in the County of Westmoreland and State of Pennsylvania; **Terrence N. Thom** of Bettendorf, in the County of Scott and State of Iowa, and **Dhruba J. Chakrabarti** of Export, in the County of Westmoreland and State of Pennsylvania, respectively

Hereby sell, assign and transfer to Alcoa, Inc., a corporation of the state of Pennsylvania, having a place of business at Pittsburgh, in the County of Allegheny, and State of Pennsylvania, its successors, assigns, and legal representatives, our entire right, title and interest, for all countries, in and to any and all improvements which are disclosed and claimed, and any and all improvements which are disclosed but not claimed, in the application for United States Patent, **Serial No. 09/208,963, Filed December 10, 1998** entitled "**High Toughness Plate Alloy for Aerospace Applications**" (Atty. Docket No. 97-2739) and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed on any of said improvements disclosed in said application; and in and to all original and reissued patents which have been or shall be issued on said improvements;

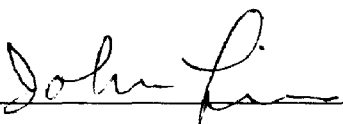
Authorize and request my attorney to insert above the filing date and application number when they become known;

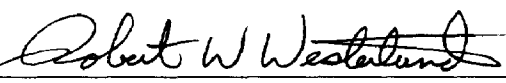
Authorize and request the Commissioner of Patents and Trademarks to issue to said Assignee, Alcoa Inc., its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said improvements, or any of them disclosed in said application;

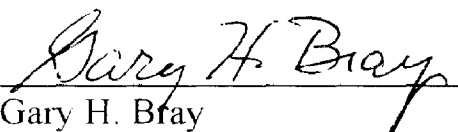
Agree that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, we will, for all countries execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to us relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent


protection for said improvements, and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives.

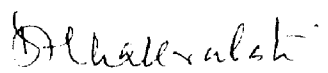
Covenant with said Assignee, its successors, assigns and legal representatives that we have made to others no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed, and that we have full right to convey the same as herein expressed.

  
\_\_\_\_\_  
John Liu

  
\_\_\_\_\_  
Robert W. Westerlund

  
\_\_\_\_\_  
Gary H. Bray

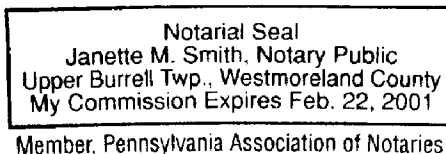
  
\_\_\_\_\_  
Terrence N. Thom

  
\_\_\_\_\_  
Dhruba J. Chakrabarti

State of Pennsylvania )  
 ) SS.  
County of Westmoreland )

Before me this 10th day of March 1999 personally appeared **John Liu**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Janette M. Smith  
Notary Public



State of Iowa )  
 ) SS.  
County of SCOTT )

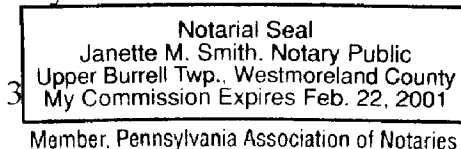
Before me this 8th day of FEBRUARY 1999 personally appeared **Robert W. Westerlund**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Anne M. Hamann  
Notary Public

State of Pennsylvania )  
 ) SS.  
County of Westmoreland )

Before me this 2nd day of March 1999 personally appeared **Gary H. Bray**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Janette M. Smith  
Notary Public



State of Iowa )  
 ) SS.  
County of Scott )

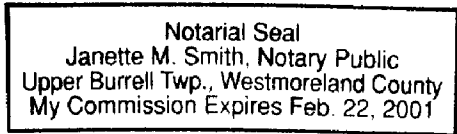
Before me this 8th day of FEBRUARY 1999 personally appeared **Terrence N. Thom**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Anne M. Hamann  
Notary Public

State of Pennsylvania )  
 ) SS.  
County of Westmoreland )

Before me this 25th day of February 1999 personally appeared **Dhruba J. Chakrabarti**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Janette M. Smith  
Notary Public



Member, Pennsylvania Association of Notaries