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**PATENTS ONLY**

1. Name of conveying party(ies):

- 2-11-02

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

Alcoa Inc.

Alcoa Corporate Center  
201 Isabella Street  
Pittsburgh, PA 15212-5858

### 3. Nature of conveyance:

- ☒ Assignment
 ☐ Merger  
☐ Security Agreement
 ☐ Change of Name  
☐ Other

Execution Date: 1. 01/02/2002 3. 12/13/2001  
2. 12/27/2001 4. 12/20/2001

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

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

A. Patent Application No.(s)

B. Patent No.(s)

09/990,807, filed Nov. 20, 2001 (Atty. Docket No. 98-2161)

FEB 11 2002

Additional numbers attached? ☐ Yes ☒ No

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

6. Total number of applications and patents involved: 1

Thomas R. Trempus  
Alcoa Inc.  
Alcoa Technical Center  
100 Technical Drive  
Alcoa Center, PA 15069-0001

7. Total fee (37 CFR 3.41): \$40.00

- ☐ Enclosed
- ☒ Authorized to be charged to deposit account

8. Deposit Account No. 01-1000  
(Attach duplicate copy of this page if paying by deposit account)

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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.

P. Susan Cranmer  
Name of Person Signing

  
Signature

January 15, 2002  
Date

02/28/2002 GTON11 00000141 011000 09990807

01 FC 581 40.00 CH

Total number of pages including cover sheet, attachments and document: 3

**PATENT**  
**REEL: 012610 FRAME: 0918**

## 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, Israel Stol, of Pittsburgh in the County of Allegheny and State of Pennsylvania, John W. Cobes, Jr. of Lower Burrell in the County of Westmoreland and State of Pennsylvania, Michael Braun, of Wendhausen and the Country of Germany, Greg S. White, of Mars, in the County of Butler 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. 09/990,807**, **Filed November 20, 2001** entitled "**A Joint Structure And Method For Making A Joint Structure**" (Atty. Docket No. 98-2161) 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;

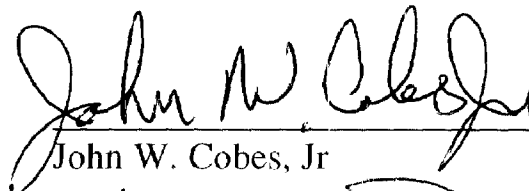
Authorize and request the Commissioner of Patents and Trademarks to issue to said Assignee, Alcoa Inc., its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said improvements, or any of them disclosed in said application;

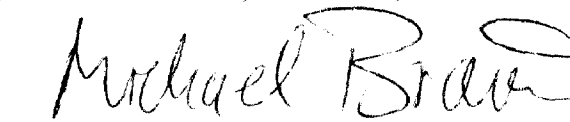
Agree that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, we will, for all countries execute all divisional, continuing, substitute, renewal, reissue, and 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

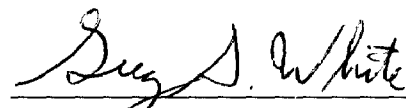
applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives.

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.

  
Israel Stol  
Date 02/11/2002

  
John W. Cobes, Jr.  
Date 12/27/2001

  
Michael Braun  
Date 13.12.01

  
Greg S. White  
Date 12/20/2001