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To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Meyer, Thomas N.

08/03/01

2. Name and address of receiving party(ies)

Name: Alcoa Inc.

Internal Address:

Street Address: Alcoa Technical Center

100 Technical Drive

City: Pittsburgh

State: PA

ZIP: 15069-0001

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

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

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other

Execution Date: July 18, 2001

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: \_\_\_\_\_

A. Patent Application No.(s) 09/867,265

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Richard L. Byrne

Internal Address: Webb Ziesenheim Logsdon  
Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

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 number:

(Attach triplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Richard L. Byrne

Name of Person Signing

Signature

August 1, 2001

Date

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

Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner for Patents, U.S. Patent and Trademark Office  
Office of Public Records, Crystal Gateway 4, Room 335  
Washington, D.C. 20231

08/07/2001 DBYRNE 00000214 09867265

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40.00 DP

## 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, I, Thomas N. Meyer, residing in Murrysville, in the County of Westmoreland, Commonwealth of Pennsylvania

Hereby sell, assign, and transfer to Alcoa Inc., a corporation of the Commonwealth of Pennsylvania, having a place of business at Pittsburgh, in the County of Allegheny and Commonwealth 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 Application Serial No. 09/867,265, filed May 29, 2001, entitled "Casting Apparatus Including a Gas Driven Molten Metal Injector and Method" (Attorney Docket No. 99-1162) 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 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.

Date 7/18/01

Inventor   
Thomas N. Meyer

COMMONWEALTH OF PENNSYLVANIA :  
: ss:  
COUNTY OF ALLEGHENY :

Before me, a Notary Public in and for the said County and Commonwealth personally appeared Thomas N. Meyer, who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this \_\_\_ day of \_\_\_\_\_, 2000.

[NOTARIAL SEAL]

\_\_\_\_\_  
Notary Public