

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>David A. Tomes Jr.</td><td>07/10/2007</td></tr><tr><td>Gavin F. Wyatt-Mair</td><td>06/21/2007</td></tr><tr><td>David W. Timmons</td><td>06/27/2007</td></tr><tr><td>Ali Unal</td><td>06/22/2007</td></tr></tbody></table>	Name	Execution Date	David A. Tomes Jr.	07/10/2007	Gavin F. Wyatt-Mair	06/21/2007	David W. Timmons	06/27/2007	Ali Unal	06/22/2007	
Name	Execution Date										
David A. Tomes Jr.	07/10/2007										
Gavin F. Wyatt-Mair	06/21/2007										
David W. Timmons	06/27/2007										
Ali Unal	06/22/2007										
RECEIVING PARTY DATA											
Name:	Alcoa Inc.										
Street Address:	Alcoa Corporate Center										
Internal Address:	201 Isabella Street										
City:	Pittsburgh										
State/Country:	PENNSYLVANIA										
Postal Code:	15212-5858										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11734121</td></tr></tbody></table>	Property Type	Number	Application Number:	11734121							
Property Type	Number										
Application Number:	11734121										
CORRESPONDENCE DATA											
Fax Number:	(724)337-5959										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	724-337-4986										
Email:	kimberly.merichko@alcoa.com										
Correspondent Name:	Alcoa Intellectual Property Department										
Address Line 1:	100 Technical Drive										
Address Line 2:	C-70										
Address Line 4:	Alcoa Center, PENNSYLVANIA 15069										
ATTORNEY DOCKET NUMBER:	06-1685 US										
NAME OF SUBMITTER:	Peter J. Borghetti										

CH \$40.00 11734121

500345869

PATENT
REEL: 019770 FRAME: 0695

Total Attachments: 5

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PATENT

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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, David A. Tomes, Jr., of the City of Sparks, and David W. Timmons, of the City of Reno, both of the State of Nevada, Gavin F. Wyatt-Mair, the City of Lafayette, State of California, and Ali Unal, City of Export, Commonwealth of Pennsylvania, respectively.

Hereby sell, assign and transfer to Alcoa Inc., a corporation of the State of Pennsylvania, having a place of business at Alcoa Corporate Center, 201 Isabella Street, Pittsburgh, Pennsylvania 15212-5858, County of Allegheny, 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 Number: 11/734,121, filed on April 11, 2007, entitled **"FUNCTIONALLY GRADED METAL MATRIX COMPOSITE SHEET"** (Atty. Docket No. 06-1685) 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.



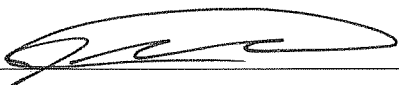
David A. Tomes, Jr.

7/10/07
Date

State of Nevada:

County of WASHOE:

Before me this 10 day of JULY 2007, personally appeared DAVID A. TOMES, JR., to me personally known to be the person who is described in and who executed the above instrument, and he/she acknowledged that he/she executed the same of his/her own free will for the purpose therein set forth.



(SEAL)

Notary Public in and for said County and State



Gavin F. Wyatt-Mair

Date

State of California:

County of _____:

Before me this _____ day of _____, personally appeared _____, to me personally known to be the person who is described in and who executed the above instrument, and he/she acknowledged that he/she executed the same of his/her own free will for the purpose therein set forth.

(SEAL)

Notary Public in and for said County and State

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.

David A. Tomes, Jr.

Date

State of Nevada:

County of _____:

Before me this _____ day of _____, personally appeared _____, to me personally known to be the person who is described in and who executed the above instrument, and he/she acknowledged that he/she executed the same of his/her own free will for the purpose therein set forth.

(SEAL)

Notary Public in and for said County and State

Gavin F. Wyatt-Mair 6/21/07
Gavin F. Wyatt-Mair Date

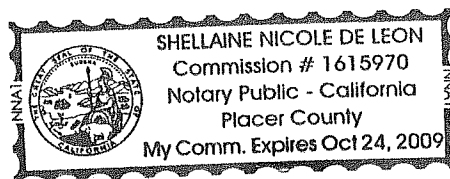
State of California:

County of Placer:

Before me this 21 day of June, 2007, personally appeared Gavin F. Wyatt-Mair, ^{Proved} to me personally known to be the person who is described in and who executed the above instrument, and he/she acknowledged that he/she executed the same of his/her own free will for the purpose therein set forth.

Shellaine Nicole De Leon
(SEAL)

Notary Public in and for said County and State



David Timmons 6-27-07
 David W. Timmons Date

State of Nevada:

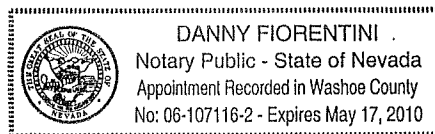
County of Washoe :

Before me this 27th day of June, 2007, personally appeared
David Timmons, to me personally known to be the person who is
 described in and who executed the above instrument, and he/she acknowledged that he/she executed
 the same of his/her own free will for the purpose therein set forth.

[Signature]

(SEAL)

Notary Public in and for said County and State



 Ali Unal

 Date

Commonwealth of Pennsylvania:

County of _____:

Before me this _____ day of _____, personally appeared
 _____, to me personally known to be the person who is
 described in and who executed the above instrument, and he/she acknowledged that he/she executed
 the same of his/her own free will for the purpose therein set forth.

 (SEAL)

Notary Public in and for said County and State

David W. Timmons

Date

State of Nevada:

County of _____:

Before me this _____ day of _____, personally appeared _____, to me personally known to be the person who is described in and who executed the above instrument, and he/she acknowledged that he/she executed the same of his/her own free will for the purpose therein set forth.

(SEAL)

Notary Public in and for said County and State

Ali Unal

 Ali Unal

June 22, 2007

Date

Commonwealth of Pennsylvania:

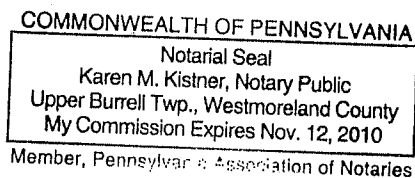
County of Westmoreland:

Before me this 22nd day of June 2007, personally appeared Ali Unal, to me personally known to be the person who is described in and who executed the above instrument, and he/she acknowledged that he/she executed the same of his/her own free will for the purpose therein set forth.

Karen M. Kistner

 (SEAL)

Notary Public in and for said County and State



PATENT

RECORDED: 08/31/2007

REEL: 019770 FRAME: 0701