

## 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>Ron D. Barclay</td><td>05/01/2007</td></tr><tr><td>Gary P. Tarcy</td><td>05/01/2007</td></tr><tr><td>Robert B. Hosler</td><td>03/14/2007</td></tr><tr><td>Xiangwen Wang</td><td>03/14/2007</td></tr><tr><td>Jay N. Bruggeman</td><td>04/30/2007</td></tr></tbody></table>	Name	Execution Date	Ron D. Barclay	05/01/2007	Gary P. Tarcy	05/01/2007	Robert B. Hosler	03/14/2007	Xiangwen Wang	03/14/2007	Jay N. Bruggeman	04/30/2007	
Name	Execution Date												
Ron D. Barclay	05/01/2007												
Gary P. Tarcy	05/01/2007												
Robert B. Hosler	03/14/2007												
Xiangwen Wang	03/14/2007												
Jay N. Bruggeman	04/30/2007												
RECEIVING PARTY DATA													
Name:	Alcoa Inc.												
Street Address:	201 Isabella Street												
Internal Address:	Alcoa Corporate Center												
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>11671392</td></tr></tbody></table>	Property Type	Number	Application Number:	11671392									
Property Type	Number												
Application Number:	11671392												
CORRESPONDENCE DATA													
Fax Number:	(720)904-6118												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	303-685-7418												
Email:	briggsh@gtlaw.com												
Correspondent Name:	Heath J. Briggs												
Address Line 1:	1200 17th Street												
Address Line 4:	Denver, COLORADO 80202												
ATTORNEY DOCKET NUMBER:	03-1903CIP												
NAME OF SUBMITTER:	Travis E. Clair												

CH \$40.00 11671392

PATENT

500273512

REEL: 019268 FRAME: 0763

**Total Attachments: 4**

source=Assignment#page1.tif

source=Assignment#page2.tif

source=Assignment#page3.tif

source=Assignment#page4.tif

**PATENT**

**REEL: 019268 FRAME: 0764**

**ASSIGNMENT  
& APPOINTMENT OF COMMON REPRESENTATIVE**

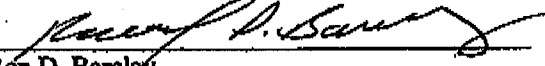
WHEREAS, we, Ron D. Barclay of 108 Kemper Lakes Court, Summerville, SC 29483; Gary P. Tarcy of 4015 Holiday Park Drive, Murrysville, PA 15668; Robert B. Hosler of 120 Coe Street, Sarver, PA 16055; Xiangwen Wang of 1034 Lexington Drive, Export, PA 15632; and Jay N. Bruggeman of 336 Raymaley Road, Harrison City, PA 15636 have invented a certain new and useful invention entitled "CLOSED END SLOTTED CARBON ANODES FOR ALUMINUM ELECTROLYSIS CELLS" for which a patent application has been prepared and filed with the U.S. Patent & Trademark Office on February 5, 2007, receiving Serial No. 11/671,392 and further identified as Attorney File No. 03-1903 CIP;

NOW THEREFORE, be it known that we, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Alcoa Inc., a Pennsylvania corporation having a place of business at 201 Isabella Street, Pittsburgh, PA 15212-5858, its successors, legal representatives and assigns, the aforesaid application and all rights to claim priority directly or indirectly to the aforesaid application and all continuation, divisional, continuation-in-part and reissue applications, all patent applications that claim priority directly or indirectly to the aforesaid application, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention(s), and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention(s) in the United States or any other country; we also assign any right, title or interest in and to the invention(s) that has not already been transferred to the assignee; we warrant that no assignment of the invention(s), application or patent therefor has been made to a party other than Alcoa Inc.; we warrant that there is no obligation to make any assignment of the invention(s), application, or any patent therefor to any party other than Alcoa Inc.; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention(s), but at the expense of said assignee.

The Commissioner For Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment to Alcoa Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

Furthermore, we hereby irrevocably appoint Alcoa Inc., its successors, legal representatives and assigns, as common representative for any and all international patent applications filed pursuant to the Patent Cooperation Treaty, and all national phase applications derived therefrom, concerning the invention(s) or claiming priority from the aforesaid application.

IN WITNESS WHEREOF, the party hereto has executed this Assignment & Appointment of Common Representative as of the date indicated hereunder.

Date: <u>5/1/07</u>	By: <u></u> Ron D. Barclay
Date: _____	By: _____ Gary P. Tarcy
Date: _____	By: _____ Robert B. Hosler
Date: _____	By: _____ Xiangwen Wang
Date: _____	By: _____ Jay N. Bruggeman

**ASSIGNMENT  
& APPOINTMENT OF COMMON REPRESENTATIVE**

WHEREAS, we, **Ron D. Barclay** of 108 Kemper Lakes Court, Summerville, SC 29483; **Gary P. Tarcy** of 4015 Holiday Park Drive, Murrysburg, PA 15668; **Robert B. Hosler** of 120 Coe Street, Sarver, PA 16055; **Xiangwen Wang** of 1034 Lexington Drive, Export, PA 15632; and **Jay N. Bruggeman** of 336 Raymaley Road, Harrison City, PA 15636 have invented a certain new and useful invention entitled **"CLOSED END SLOTTED CARBON ANODES FOR ALUMINUM ELECTROLYSIS CELLS"** for which a patent application has been prepared and filed with the U.S. Patent & Trademark Office on February 5, 2007, receiving Serial No. 11/671,392 and further identified as Attorney File No. 03-1903 CIP;

NOW THEREFORE, be it known that we, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, **Alcoa Inc.**, a Pennsylvania corporation having a place of business at 201 Isabella Street, Pittsburgh, PA 15212-5858, its successors, legal representatives and assigns, the aforesaid application and all rights to claim priority directly or indirectly to the aforesaid application and all continuation, divisional, continuation-in-part and reissue applications, all patent applications that claim priority directly or indirectly to the aforesaid application, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention(s), and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention(s) in the United States or any other country; we also assign any right, title or interest in and to the invention(s) that has not already been transferred to the assignee; we warrant that no assignment of the invention(s), application or patent therefor has been made to a party other than **Alcoa Inc.**; we warrant that there is no obligation to make any assignment of the invention(s), application, or any patent therefor to any party other than **Alcoa Inc.**; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention(s), but at the expense of said assignee.

The Commissioner For Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment to **Alcoa Inc.**, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

Furthermore, we hereby irrevocably appoint **Alcoa Inc.**, its successors, legal representatives and assigns, as common representative for any and all international patent applications filed pursuant to the Patent Cooperation Treaty, and all national phase applications derived therefrom, concerning the invention(s) or claiming priority from the aforesaid application.

IN WITNESS WHEREOF, the party hereto has executed this Assignment & Appointment of Common Representative as of the date indicated hereunder.

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Ron D. Barclay

Date: 5/1/2007

By: Gary P. Tarcy  
Gary P. Tarcy

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Robert B. Hosler

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Xiangwen Wang

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Jay N. Bruggeman

**ASSIGNMENT  
& APPOINTMENT OF COMMON REPRESENTATIVE**

WHEREAS, we, **Ron D. Barclay** of 108 Kemper Lakes Court, Summerville, SC 29483; **Gary P. Tarcy** of 4015 Holiday Park Drive, Murrys ville, PA 15668; **Robert B. Hosler** of 120 Coe Street, Sarver, PA 16055; **Xiangwen Wang** of 1034 Lexington Drive, Export, PA 15632; and **Jay N. Bruggeman** of 336 Raymaley Road, Harrison City, PA 15636 have invented a certain new and useful invention entitled **"CLOSED END SLOTTED CARBON ANODES FOR ALUMINUM ELECTROLYSIS CELLS"** for which a patent application has been prepared and filed with the U.S. Patent & Trademark Office on February 5, 2007, receiving Serial No. 11/671,392 and further identified as Attorney File No. 03-1903 CIP;

NOW THEREFORE, be it known that we, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, **Alcoa Inc.**, a Pennsylvania corporation having a place of business at 201 Isabella Street, Pittsburgh, PA 15212-5858, its successors, legal representatives and assigns, the aforesaid application and all rights to claim priority directly or indirectly to the aforesaid application and all continuation, divisional, continuation-in-part and reissue applications, all patent applications that claim priority directly or indirectly to the aforesaid application, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention(s), and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention(s) in the United States or any other country; we also assign any right, title or interest in and to the invention(s) that has not already been transferred to the assignee; we warrant that no assignment of the invention(s), application or patent therefor has been made to a party other than **Alcoa Inc.**; we warrant that there is no obligation to make any assignment of the invention(s), application, or any patent therefor to any party other than **Alcoa Inc.**; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention(s), but at the expense of said assignee.

The Commissioner For Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment to **Alcoa Inc.**, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

Furthermore, we hereby irrevocably appoint **Alcoa Inc.**, its successors, legal representatives and assigns, as common representative for any and all international patent applications filed pursuant to the Patent Cooperation Treaty, and all national phase applications derived therefrom, concerning the invention(s) or claiming priority from the aforesaid application.

IN WITNESS WHEREOF, the party hereto has executed this Assignment & Appointment of Common Representative as of the date indicated hereunder.

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Ron D. Barclay

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Gary P. Tarcy

Date: 3-14-07

By: Robert B. Hosler  
Robert B. Hosler

Date: 3-14-07

By: Xiangwen Wang  
Xiangwen Wang

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Jay N. Bruggeman

**ASSIGNMENT  
& APPOINTMENT OF COMMON REPRESENTATIVE**

WHEREAS, we, **Ron D. Barclay** of 108 Kemper Lakes Court, Summerville, SC 29483; **Gary P. Tarcy** of 4015 Holiday Park Drive, Murrysville, PA 15668; **Robert B. Hosler** of 120 Coe Street, Sarver, PA 16055; **Xiangwen Wang** of 1034 Lexington Drive, Export, PA 15632; and **Jay N. Bruggeman** of 336 Raymaley Road, Harrison City, PA 15636 have invented a certain new and useful invention entitled **"CLOSED END SLOTTED CARBON ANODES FOR ALUMINUM ELECTROLYSIS CELLS"** for which a patent application has been prepared and filed with the U.S. Patent & Trademark Office on February 5, 2007, receiving Serial No. 11/671,392 and further identified as Attorney File No. 03-1903 CIP;

NOW THEREFORE, be it known that we, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, **Alcoa Inc.**, a Pennsylvania corporation having a place of business at 201 Isabella Street, Pittsburgh, PA 15212-5858, its successors, legal representatives and assigns, the aforesaid application and all rights to claim priority directly or indirectly to the aforesaid application and all continuation, divisional, continuation-in-part and reissue applications, all patent applications that claim priority directly or indirectly to the aforesaid application, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention(s), and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention(s) in the United States or any other country; we also assign any right, title or interest in and to the invention(s) that has not already been transferred to the assignee; we warrant that no assignment of the invention(s), application or patent therefor has been made to a party other than **Alcoa Inc.**; we warrant that there is no obligation to make any assignment of the invention(s), application, or any patent therefor to any party other than **Alcoa Inc.**; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention(s), but at the expense of said assignee.

The Commissioner For Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment to **Alcoa Inc.**, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

Furthermore, we hereby irrevocably appoint **Alcoa Inc.**, its successors, legal representatives and assigns, as common representative for any and all international patent applications filed pursuant to the Patent Cooperation Treaty, and all national phase applications derived therefrom, concerning the invention(s) or claiming priority from the aforesaid application.

IN WITNESS WHEREOF, the party hereto has executed this Assignment & Appointment of Common Representative as of the date indicated hereunder.

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Ron D. Barclay

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Gary P. Tarcy

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Robert B. Hosler

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Xiangwen Wang

Date: 4/30/07

By: Jay N. Bruggeman  
Jay N. Bruggeman

Page 1 of 1