

05-12-2004



IN THE UNITED STATES PATENT 102744909

Patent No.: ~~6,089,308~~ 5.10.04 )  
Issued: July 18, 2000 )  
Atty. File No.: 2053-117-3CON )  
For: "METHOD AND APPARATUS )  
FOR IMPROVING THE QUALITY )  
OF CONTINUOUSLY CAST )  
METAL" )

Patent No.: 6,290,785 )  
Issued: September 18, 2001 )  
Atty. File No.: 2053-123-1-3-1 )  
For: "HEAT TREATABLE ALUMINUM )  
ALLOYS HAVING LOW EARING" )

Patent No.: 5,979,539 )  
Issued: November 9, 1999 )  
Atty. File No.: 2053-119-2CON )  
For: "BLOCK FIXATION AND )  
ADJUSTMENT IN A CONTINUOUS )  
CASTER" )

Patent No.: 6,076,657 )  
Issued: June 20, 2000 )  
Atty. File No.: 2053-118-1CON )  
For: "APPARATUS FOR CONTINUOUSLY )  
CASTING METAL" )

Mail Stop Assignment Recordation Services  
Director of the U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sir:

Please record the attached original documents or copy thereof:

1. Name of conveying party(ies):

Golden Aluminum Company  
16000 Table Mountain Parkway  
Golden, Colorado 80403

OFFICE OF PUBLIC RECORDS  
2004 MAY 10 AM 9:15  
FINANCE SECTION

PATENT

REEL: 015302 FRAME: 0288

05/11/2004 METACHE 00000006 6089308 160.00 CP  
1208:32 10 FC:0021

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

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

3. Nature of Conveyance:

<input checked="" type="checkbox"/>	Assignment	<input type="checkbox"/>	Merger
<input type="checkbox"/>	Security Agreement	<input type="checkbox"/>	Change of Name
<input type="checkbox"/>	Other:_____		

Execution Date: November 5, 1999 by Jed J. Burnham  
President  
Golden Aluminum Company

November 12, 1999 by Lawrence R. Purtell  
Executive Vice President and  
General Counsel  
Alcoa Inc.

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): None.

B. Patent No.(s): 6,089,308; 6,290,785; 5,979,539; and 6,076,657

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

Mary B. Smith  
Sheridan Ross P.C.  
1560 Broadway, Suite 1200  
Denver, Colorado 80202-5141

6. Total number of applications and/or patents involved:

4.

7. Total fee (37 CFR 3.41).....\$160.00.

☒ Enclosed

☒ Any deficiency in payment of recording fee is authorized to be charged to deposit account.

☐ Authorized to be charged to deposit account.

8. Deposit account number: 19-1970.

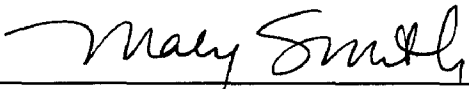
9. Statement and signature.

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.

Total number of pages including cover sheet, attachments and document: 11

Respectfully submitted,

SHERIDAN ROSS P.C.

By: 

Mary B. Smith  
Registration No. 43,512  
1560 Broadway, Suite 1200  
Denver, Colorado 80202-5141  
(303) 863-9700

Date: May 5, 2004  
J:\2053\117\3cor\Recreation of Assignment-01

ASSIGNMENT

WHEREAS, Golden Aluminum Company, a Colorado corporation having a place of business at 16000 Table Mountain Parkway, Golden, Colorado 80403, is the owner of the patents and patent applications set forth in Appendix I;

WHEREAS, Alcoa Inc., a Pennsylvania corporation, having a place of business at Alcoa Corporate Center, 201 Isabella Street, Pittsburgh, Pennsylvania 15212-5858, is desirous of acquiring said interest of Golden Aluminum Company.

NOW THEREFORE, be it known that for certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, Golden Aluminum Company does sell, assign and transfer to Alcoa Inc., its successors, legal representatives and assigns, the aforesaid patents and applications for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, 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 inventions, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the inventions in the United States or any other country, Golden Aluminum Company also assigns any right, title or interest in and to the said inventions which has not already been transferred to Alcoa Inc.; Golden Aluminum Company warrants that no assignment has been made of the invention, application or patent therefor to a party other than Alcoa Inc. and Golden Aluminum Company is under no obligation to make any assignment of the invention, application, or patent therefor to any other party, and Golden Aluminum Company further agrees to cooperate with Alcoa Inc. hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming Alcoa Inc.'s exclusive ownership of the inventions, but at the expense of Alcoa Inc..

The Commissioner of 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.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the day indicated hereunder.

GOLDEN ALUMINUM COMPANY

Date: November 5, 1999

By: Jed J. Burnham  
Name: Jed J. Burnham  
Title: President

This Assignment is accepted by:

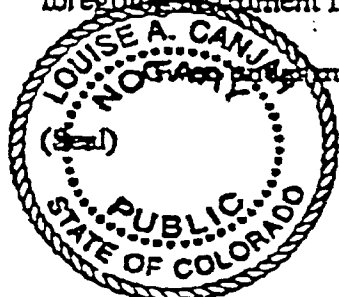
ALCOA INC.

Date: NOVEMBER 13, 1999

By: L. Portell  
Name: LAWRENCE R. PORTELL  
Title: EXECUTIVE VICE PRESIDENT AND  
GENERAL COUNSEL

State of Colorado )  
City of Denver ) ss.  
 County of Denver

Before me, a Notary Public in and for said County and State, personally appeared JED J. BURMAN, known to me to be the person whose name is subscribed to in the foregoing instrument, and acknowledged to me that he/she, being authorized to do so, executed the foregoing instrument for the purposes and considerations therein expressed.



Given under my hand and seal of office this 5<sup>th</sup> day of NOVEMBER 1999

Louise A. Canine  
 Notary Public

My Commission Expires: 1-20-02

State of Pennsylvania )  
County of Allegheny ) ss.

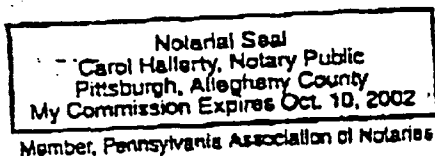
Before me, a Notary Public in and for said County and State, personally appeared LAWRENCE R. PUFFEL known to me to be the person whose name is subscribed to in the foregoing instrument, and acknowledged to me that he/she, being authorized to do so, executed the foregoing instrument for the purposes and considerations therein expressed.

Given under my hand and seal of office this 12<sup>th</sup> day of November 1999

(Seal)

Carol Hallerty  
 Notary Public

My Commission Expires:



**APPENDIX I**  
**PATENTS AND PATENT APPLICATIONS**

COUNTRY	PATENT NO.	APPLICATION NO.	EXPIRATION
U.S.	4,260,419		8/4/98
U.S.	4,269,632	-	8/4/98
Canada	1176817		10/30/01
U.S.	4,282,044		8/4/98
U.S.	4,235,646		11/25/97
Germany	2901020.6		1/12/99
Japan	1675276		11/13/98
Canada	1171234		7/24/01
U.S.	4,238,248		8/4/98
France	8003475		8/31/99
U.K.	2027621		7/31/99
Australia	522546		7/27/99
Norway	152455		8/2/99
Sweden	447395		8/2/99
Canada	1171235		7/24/01
Canada	1193524		9/17/02
U.S.	4,217,947		4/27/98
Canada	1097026		3/10/98
U.S.	4,485,835		12/4/01
U.S.	4,290,477		1/29/99
U.S.	4,619,309		6/21/04
Japan	1697003		1/30/99
Canada	1156421		11/8/00
U.S.	4,250,950		10/25/99
Germany	2856472.9		12/28/98

Japan	1520943		10/29/99
Canada	1143922		4/5/00
U.S.	4,425,411		5/10/02
Canada	1189283		6/25/02
Japan	1732159		5/21/02
Canada	1216411		1/13/04
Canada	1226418		9/8/04
Canada	1226115		9/1/04
U.S.	4,625,788		8/10/04
Canada	1232117		2/2/05
Japan	1856087		8/24/04
U.S.	4,674,555		5/7/05
Canada	1237569		6/7/05
Japan	1993055		5/11/05
U.S.	4,617,980		6/6/05
Canada	1229716		12/1/04
Japan	2559365		
U.S.	4,976,790		2/24/09
Canada	1313344		2/2/10
Australia	639446		2/21/06
Brazil		PI9007119	2/21/05
Japan		504070/90	
Korea	0195593		2/12/14
Norway	178.550		2/21/10
U.S.	5,110,545		9/5/10
U.S.	5,106,429		9/5/10
U.S.	5,104,465		9/5/10
Canada		2091187	

Japan		517839	
Mexico	179327		3/18/02
U.S.		08/012,310	
PCT		US93/12141	
U.S.	5,469,912		2/22/13
Mexico		941309	
PCT		94/01991	
Venezuela		2021-93	
U.S.	5,697,423		12/16/14
U.S.		09/164,028	
U.S.		09/163,571	
U.S.		09/163,632	
U.S.		09/164,103	
U.S.		09/164,044	
U.S.	5,839,500		3/30/14
PCT		95/03630	
Australia	699123		3/27/15
Australia		12107/99	
Brazil		PI9507218	
Europe		95915401.4	
Japan		07/525,751 -	
U.S.	5,645,159		7/8/14
U.S.		08/889,023	
U.S.	5,873,404		3/30/14
Australia	702027		3/27/15
Australia		28069/99	
Australia		28070/99	
PCT		95/03632	



Brazil		PI9507217	
Europe		95914825.5	
Japan		07/525752	
U.S.		09/048,558	
U.S.	5,868,193		3/30/14
U.S.	5,924,474		3/30/14
U.S.	5,878,805		3/30/14
U.S.		09/226,841	
U.S.	5,645,122		7/8/14
U.S.	5,975,190	09/164,030	
U.S.		09/163,030	
U.S.	5,881,798		3/30/14
Australia	694209		3/27/15
Australia		88440/98	
PCT		95/03795	
Brazil		PI9607216	
Europe		95915426.1	
Japan		07/525,785	
PCT		94/14895	
U.S.		08/624209	
U.S.	5,861,408		3/9/15
Hong Kong		98108886.3	
PCT		96/03115	
Australia	706420		
Australia		Unknown	
Brazil		PI9607631	
Canada		2214888	
China		96193797.1	

Eurasia		EA-97-0218	
Europe		96907197.6	
Japan		8-527715	
Mexico		9706870	
U.S.	5,833,775		3/9/15
U.S. (Prov)		60/052,326	
U.S.		08/864,883	
PCT		98/11235	
U.S.		08/869,817	
U.S.	5,976,279	08/869,245	
U.S.		09/346,035	
U.S.		09/133,392	

TC017Patent enforcement for 4n class.epd

**APPENDIX I  
CANADA PATENT APPLICATIONS**

COUNTRY	APPLICATION NO.
Canada	2185659
Canada	2185645
Canada	2185660