

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>ChangMin Chun</td> <td>12/13/2011</td> </tr> <tr> <td>D. Samuel Deutsch</td> <td>12/13/2011</td> </tr> <tr> <td>Vance A. McCray</td> <td>10/26/2011</td> </tr> <tr> <td>James E. Feather</td> <td>11/03/2011</td> </tr> </tbody> </table>		Name	Execution Date	ChangMin Chun	12/13/2011	D. Samuel Deutsch	12/13/2011	Vance A. McCray	10/26/2011	James E. Feather	11/03/2011		
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<table border="1"> <tr> <td>Name:</td> <td>ExxonMobil Research and Engineering Company</td> </tr> <tr> <td>Street Address:</td> <td>1545 Route 22 East</td> </tr> <tr> <td>Internal Address:</td> <td>P.O. Box 900</td> </tr> <tr> <td>City:</td> <td>Annandale</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>08801-0900</td> </tr> </table>		Name:	ExxonMobil Research and Engineering Company	Street Address:	1545 Route 22 East	Internal Address:	P.O. Box 900	City:	Annandale	State/Country:	NEW JERSEY	Postal Code:	08801-0900
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CORRESPONDENCE DATA													
<p>Fax Number: (908)730-3649</p> <p>Phone: 908-730-3605</p> <p>Email: kimberly.m.shapiro@exxonmobil.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: ExxonMobil Research and Engineering Co.</p> <p>Address Line 1: 1545 Route 22 East</p> <p>Address Line 2: P.O. Box 900</p> <p>Address Line 4: Annandale, NEW JERSEY 08801-0900</p>													
ATTORNEY DOCKET NUMBER:	2010EM294-US2												
NAME OF SUBMITTER:	Robert A. Migliorini												
<p>Total Attachments: 1</p> <p>source=2010EM294-US2-ASSIGNMENT#page1.tif</p>													

CH \$40.00 13271856

PATENT

**ASSIGNMENT
INVENTOR or INVENTORS:**

ChangMin Chun

D. Samuel Deutsch

Vance A. McCray

James E. Feather

For good and valuable consideration, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

1) UNDERSIGNED hereby assign(s) to ExxonMobil Research and Engineering Company (formerly Exxon Research and Engineering Company), a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED's invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled

**ALUMINA FORMING BIMETALLIC TUBE FOR REFINERY PROCESS FURNACES AND METHOD OF
MAKING AND USING**

said application having been executed on the 26th day(s) of October 2011, and being further identified as Case Number 2010EM294-US2; and all rights of priority created by said application under provisions of international conventions or treaties.

2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefore or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.

3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.

4) UNDERSIGNED agree(s) to perform upon ASSIGNEE's request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.

5) UNDERSIGNED hereby authorize(s) ASSIGNEE to insert in this instrument the date(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED's NAME.

Date Dec. 13, 2011 Inventor [Signature] (LS) Witness [Signature]
ChangMin Chun

Date 12/13/2011 Inventor [Signature] (LS) Witness [Signature]
D. Samuel Deutsch

Date 10/26/11 Inventor [Signature] (LS) Witness [Signature]
Vance A. McCray

Date 11/3/2011 Inventor [Signature] (LS) Witness [Signature]
James E. Feather

Date _____ Inventor _____ (LS) Witness _____

Date _____ Inventor _____ (LS) Witness _____