

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Katsuhiko Takagi</td> <td>09/21/2010</td> </tr> <tr> <td>Hitoshi Saima</td> <td>09/27/2010</td> </tr> <tr> <td>Yasuhiro Mogi</td> <td>09/22/2010</td> </tr> <tr> <td>Yasuo Miyoshi</td> <td>09/30/2010</td> </tr> </tbody> </table>		Name	Execution Date	Katsuhiko Takagi	09/21/2010	Hitoshi Saima	09/27/2010	Yasuhiro Mogi	09/22/2010	Yasuo Miyoshi	09/30/2010
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>JFE Steel Corporation</td> </tr> <tr> <td>Street Address:</td> <td>2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>100-0011</td> </tr> </table>		Name:	JFE Steel Corporation	Street Address:	2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	100-0011
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (215)656-2498  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 215-656-3381        Email: pto.phil@dlapiper.com        Correspondent Name: IP GROUP OF DLA PIPER LLP (US)        Address Line 1: ONE LIBERTY PLACE        Address Line 2: 1650 MARKET ST, SUITE 4900        Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103</p>											
ATTORNEY DOCKET NUMBER:	JFE-10-1416US(308692-265)										
NAME OF SUBMITTER:	Leslie Hood										
Total Attachments: 1											

CH \$40.00 12990375

**501335781**

**PATENT**  
**REEL: 025220 FRAME: 0453**



ASSIGNMENT

WHEREAS, we, 1)Katsuhiko TAKAGI, 2)Hitoshi SAIMA, 3)Yasuhiro MOGI, 4)Yasuo MIYOSHI, citizens of Japan, residing at 1) 3) Kawasaki, Japan 2)Fukuyama, Japan 4) Tokyo, Japan,

respectively, (hereinafter referred to as "the undersigned"), having made an invention entitled METHOD FOR REFORMING EXHAUST GAS GENERATED FROM METALLURGICAL FURNACE. METHOD FOR COOLING EXHAUST GAS AND APPARATUS THEREFOR,

identified in International Application No. PCT/JP2009/059111, and US Application No. 12/990,375, (DLA Piper is authorized to insert the Serial No. when known),

WHEREAS, IFE STEEL CORPORATION, with offices at 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-0011 Japan (hereinafter referred to as "assignee"), is desirous of acquiring the entire right, title and interest in said invention, said US application and all letters patent issuing for said invention,

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the assignee the entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said US application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the assignee, and to execute all instruments proper to carry out the intent of this instrument. If the undersigned includes more than one individual, these obligations shall apply to all of the undersigned both individually and collectively.

The rights and property herein conveyed by the undersigned are free and clear of any encumbrance.

EXECUTED on the date(s) set forth below.

Sep. 21, 2010  
Date

September 27, 2010  
Date

September 22, 2010  
Date

September 30, 2010  
Date

\_\_\_\_\_  
Date

Katsuhiko Takagi  
Katsuhiko TAKAGI

Hitoshi Saima  
Hitoshi SAIMA

Yasuhiro Mogi  
Yasuhiro MOGI

Yasuo Miyoshi  
Yasuo MIYOSHI

**PATENT**