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Form PTO-1595 (Rev. 09/04) OMB No. 0651-0027 (exp. 6/30/2005) 11/18/2	14696/30 2011 U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office	
11-14-11	13/261016	
To the Director of the U.S. Patent ar.	ASS TESSIVE UTE ATTACHED documents or the new address(es) below.	
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)	
Hatsuo TAIRA, Taijiro MATSUI, Takayuki UCHIDA, Shingo	Name: Nippon Steel Corporation	
UMEDA, Hiroshi IMAGAWA, and Shintaro KOBAYASHI	Internal Address:	
Execution Date(s) November 10, 2011	Street Address: 6-1, Marunouchi 2-chome	
Additional name(s) of conveying party(ies) attached? Yes V		
3. Nature of conveyance:	Chiyoda-ku	
✓ Assignment	City: Tokyo	
Security Agreement Change of Name	State:	
Government Interest Assignment		
Executive Order 9424, Confirmatory License	Country: Japan Zip: 100-8071	
Other	Additional name(s) & address(es) attached? ☐ Yes ✓ No	
4. Application or patent number(s):	document is being filed together with a new application.	
A. Patent Application No.(s)	B. Patent No.(s)	
- William - Will		
Additional numbers a	ttached?	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name:_Weining Wang		
	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00	
Internal Address: KENYON & KENYON LLP	Authorized to be charged by credit card	
	Authorized to be charged to deposit account Enclosed	
Street Address: ONE BROADWAY	None required (government interest not affecting title)	
	8. Payment Information	
City: NEW YORK	a. Credit Card Last 4 Numbers	
State: NEW YORK Zip: 10004	Expiration Date	
Phone Number: <u>212-425-7200</u>	b. Deposit Account Number 11-0600	
Fax Number: 212-425-5288		
Email Address:	Authorized Uses Nameres assessed 118688 123615 6	
9. Signature: Glenurs Gla	Nur. 14, 2011	
Signature	Date	
Weining Wang (Reg. No. 47,164) Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:	
Name of Person Signing	(5.55), altaorimonto, and doddinonts.	

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

EXPRESS MAIL NO.: EM 093 910 457 US

Name of Person Signing

ASSIGNMENT

IN CONSIDERATION of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to (1) NPPON STEEL CORPORATION, a corporation of <u>Japan</u>, having a principal place of business at <u>6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8071 Japan</u> ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and discoveries that are disclosed in the United States Patent Application entitled:

FURNACE, REFRACTORY INSTALLING METHOD, AND REFRACTORY BLOCK

the specification of which is attached hereto unless the following is entered:

Filed on	as United States Application Number or PCT International Application Number	and was amended on (if applicable)
19/May/2010	PCT/JP2010/003370	

NOW, THEREFORE, we hereby, without reservations:

- 1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said invention, said patent application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said invention in any and all countries, including all divisional, renewal, substitute, continuation, and Convention applications based in whole or in part upon said invention, or upon said patent application, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said invention or upon said patent application, and every priority right that is or may be predicated upon or arise from said invention, said patent application, and said Letters Patent(s).
- 2. Authorize Assignee to file patent applications in any or all countries for said invention in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as Assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.
- 4. Warrant that we have not conveyed to others any right, title, or interest in said invention, patent application, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said invention; that we have good right to assign the same to Assignee without encumbrance; and that we are aware of no claim to the contrary.
- 5. Bind our heirs, legal representatives, and assigns, as well as ourselves to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

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PATENT REEL: 027331 FRAME: 0177

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RECORDED: 11/14/2011