41115 Form PTO-1595 To the Honorable Commissioner	04-27-2005 102989338 of Patents and Trademarks: Ple		1 1 APR 2005 Ocket No. <u>04433/LH</u> documents or copy thereof.					
1. Name of conveying party(ies)								
Yutaka AWAJIYA Mikio SUZUKI Keiji WATANABE Makoto IIYAMA		JFE Steel Corporation 2-3, Uchisaiwai-cho 2-chon Chiyoda-ku, Tokyo 100-00'						
3. Nature of conveyance: - ASS	GNMENT							
Execution Date(s): <u>ALL EXECUT</u>	ED ON JULY 30, 2004 ,	, re	espectively.					
4. Application number(s) or pate	nt number(s):							
If this document is being filed	together with a new application,	the execution date of the appli	ication is as follows:					
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A. Patent Application N	o. (s)	B. Patent No.(s)	, roopoditiony.					
10/500,789								
5. Name and address of party t	o whom correspondence concer	ning document should be mailed	i:					
767 Third Ave	FRISHAUF, HOLTZ, GOODMAN & CHICK, P.C. 767 Third Avenue, 25th Floor New York, New York 10017-2023 FAX NO. 212-319-5101							
6. Total number of applications and	patents involved: <u>1</u>							
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I hereby certify that this paper "Express Mail Post Office Addres Commissioner for Patents, P.O. E	ses" service under 37 CFR 1.10	on the date indicated above an	e United States Postal Service d is addressed to the					

Sharon Portnoy

Dated: <u>April 11, 2005</u>

12/04

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

PATENT REEL: 016484 FRAME: 0608

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U.S. Attorney Docket 04433/LH

ASSIGNMENT

In consideration of value received, I, having a residence and post office address as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

IMMERSION NOZZLE FOR CONTINUOUS CASTING OF STEEL AND METHOD OF CONTINUOUS CASTING OF STEEL

sell and assign to JFE Steel Corporation a corporation of Japan having a business address at 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-0011 JAPAN

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent filed in the United States on and corresponding to international application number PCT/JP03/00710 filed January 27, 2003;

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant to any attorney member of the following law firm the power to insert on this Assignment the Serial number and filing date of said application when known.

SERIAL NO.: 10/500,789

Deposited July 6, 2004

Frishauf, Holtz, Goodman & Chick, P.C., 767 Third Avenue - 25th Floor, New York, N.Y. 10017-2023.

INVENTOR:SIGNATURE	DATE	RESIDENCE AND POST OFFICE ADDRESS		
^{sign:} Yutaka Awajiya	Date: July 30, 2004	c/o Intellectual Property Department JFE Steel Corporation 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-		
Type: Yutaka AWAJIYA	Witness:	0011 JAPAN		
Sign: Mikio Suzuki	Date: July 30, 2004	c/o Intellectual Property Department JFE Steel Corporation 2-3, Uchisalwai-cho 2-chome, Chiyoda-ku, Tokyo 100-		
Type: Mikio SUZUKI	Witness:	0011 JAPAN		
sign: Reiji Watanabe	Date: July 30, 2004	c/o Intellectual Property Department JFE Steel Corporation 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-		
Type: Keiji WATANABE	Witness:	0011 JAPAN		
sign: Makito Giyama	Date: July 30, 2004	c/o Intellectual Property Department JFE Steel Corporation		
Type: Makoto IIYAMA	Witness:	2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100- 0011 JAPAN		
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PATENT REEL: 016484 FRAME: 0609 PTO-2038 (02-2003) Approved for use through 02/28/2006. OMB 0651-0043 United States Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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