Mail Stop: Assignment Recordation Services RECORDATION FOI Director of the U.S. Patent PATENT and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	
Please record the attached document.	
Total number of pages including cover sheet, attachments, and docu-	ument: <u>3</u>
1. A. Name of conveying parties: 1. Yukinori IIZUKA 2. Kazuhito KENMOCHI 3. Hiroyasu YOKOYAMA 4. Tomohiro INOUE 5. Shigeto SAKASHITA B. Additional names of conveying parties attached? ☐ Yes ☒ No 3. A. Nature of conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other B. Execution Date: 1., 4. and 5.: October 30, 2009: 2 October 16, 2009; 3.: October 19, 2009	2. A. Name and address of receiving party: JFE STEEL CORPORATION 2-3, UCHISAIWAI-CHO 2-CHOME CHIYODA-KU, TOKYO 100-0011 JAPAN B. Additional names & addresses attached? □Yes ☒ No
	B. Patent No.(s) ttached?
5. Name and address of party to whom correspondence concerning document should be mailed: Name: James A. Oliff Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787	 6. Total number of applications and patents involved: 1 7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00. 8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.
9. Statement and signature To the best of my knowledge and belief, the foregoing inform original document. James J. Oliff, Registration No. 27,075 Patrick T. Muffo, Registration No. 60,342	Date: November 20, 2009

PATENT REEL: 023549 FRAME: 0140

OLIFF	&	BERRIDGE,	PLC
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			ASSIGNME	NT	2-1	1 1
		(1) <u>Yul</u>	kinori IIZUKA		Shigeto SAKASHITA	
(1-8)	Insert	(2) <u>Kaz</u>	zuhito KENMOCHI	(6)		
	Name(s) of Inventor(s)	(3) <u>Hir</u>	oyasu YOKOYAMA	(7)		
		(4) <u>Tor</u>	nohiro INOUE	(8)		
		paid to each			\$1.00) and other good and valuable es to assign, and hereby does assign	
(9)	Insert Name of Assignee	(9) _JFE	STEEL CORPORATION			
(10)	Insert Address of Assignee	` '		Chivoda-ku Tol	cvo 100-0011 Japan	
Assignee (10) 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-0011 Japan (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal repress the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in invention, and in all applications for patent including any and all provisional, non-provisional, div continuation, international, confirmation, substitute and reissue application(s), and all Letters Pate extensions, reissues and reexamination certificates that may be granted on the invention known as						
(11)	Insert Identification such as Title, Case	(11) QU	ALITY CONTROL METH	OD AND MAN	JFACTURING METHOD FOR PIF	·E
	Number, or Foreign Application Number	(Attorney F	Oocket No. 142682			,
	Application Number				cation for patent in the United State	
		on even dat	e herewith or	Accuted an appli	outon for paront in the outled blace	o or i miorioa
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	Application	UII			<u></u>	
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	Identification for filed applications	filed				
application any application any application and agreements full right and agridentifities.	applications for the invention and patents as the Assi 2) Each undersigned agreelication or continuation or dignee in every way possible 3) Each undersigned agree provisions of the Internati 4) Each undersigned agreeination a grant of a valid Un 5) Each undersigned auti of the United States resulting to convey the entire interestes that this assignment is bid 6) Each undersigned here cation that may be necessary tion of this document.	n, and any pate gnee may deem best to execute a ivision thereof, in obtaining est to execute a const Convention that the constance of the convention of the	ent(s) issuing thereon, and an accessary. Il papers necessary in connit, or any patent or reissue apidence and going forward will papers and documents are for Protection of Industrial affirmative acts which must to the Assignee. Lests the Commissioner of Dication(s) to the said Assigned, and that he has not exeed this heirs, successors, as firm of OLIFF & BERRIDGE and the result of the res	dection with any isplication based to the such interfer of perform any as all Property or single because the U.S. Patent agnee, as Assigne cuted, and will a signs and legal replication, PLC the power sules of the Unite	ot which may be necessary in conne- nilar agreements. to obtain, maintain or confirm by re- nd Trademark Office to issue any a e of the entire interest, and covenan of execute, any agreements in confli- epresentatives. to insert on this assignment any fur d States Patent and Trademark Offi	concerning operate with ction with eissue or all Letters ts that he has ict herewith, ther
	In witness whereof, execu	=	= '''	• ••		
Date	October 30 , 2009				KA Juhimi Kizuka	_ (SEAL)
Date	-		-		MOCHI	(SEAL)
Date			Inventor Signature			_ (SEAL)
Date	October 30, 2009				UE Tomohiro Inone	_ (SEAL)
Date	October 30, 2009		Inventor Signature	Shigeto SAKA	<u>SHITA Shigeto Sakashito</u>	ي (SEAL)
Date			Inventor Signature			(SEAL)
Date			Inventor Signature			(SEAL)
Date			Inventor Signature			_ (SEAL)
If neith	This assignment should pro er, then it should be signed b				U.S.A. (b) a U.S. Consul if outside	the U.S.A.
Date		·	Witness			
Data			*******			

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ASSICNMENT	۱	CC	TC:	NI	Æ	NT
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			ASSIGNME	NT	·	
		(I) _	Yukinori IIZUKA	(5)	Shigeto SAKASHITA	
(1-8)	Insert	(2) _1	Kazuhito KENMOCHI	(6)		
	Name(s) of Inventor(s)	(3) _1	Hiroyasu YOKOYAMA	(7)		
		(4)	Tomohiro INOUE	(8)		
			In consideration of the sun	of one dollar	(\$1.00) and other good and valuable co	onsideration
		paid to e set over (ndersigned agre	es to assign, and hereby does assign, t	ransfer and
(9)	Insert Name of Assignee Insert Address of	(9)	IFE STEEL CORPORATION			
(10)	Assignee	(10) _3	2-3, Uchisaiwai-cho 2-chome,	Chiyoda-ku, To	okyo 100-0011 Japan	
		the entire inventior continual extension	e right, title and interest for the Un, and in all applications for pate tion, international, confirmation as, reissues and reexamination of	Jnited States of ant including an , substitute and ertificates that r	neirs, successors, assigns and legal repre America as defined in 35 U.S.C. §100, y and all provisional, non-provisional, d reissue application(s), and all Letters Pa nay be granted on the invention known	in the livisional, atent, as
(11)	Insert	(11)	QUALITY CONTROL METH	OD AND MAN	UFACTURING METHOD FOR PIPE	
	Identification such as Title, Case	_	<u></u>			
	Number, or Foreign Application Number	(Attorne	y Docket No142682.		<u> </u>)
		for which	h the undersigned has (have) ex		lication for patent in the United States	
		on even	date herewith or			
(12)	Insert Date of Signing of	(12)	October $\left[\begin{array}{c} G \\ \end{array} \right]$, 2009	•		
	Application	on	' ' [
(13)	Alternative	(13)	U.S. application Serial		. د	
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applica any app the Ass claims reexam Patents full rig and agr identifit	applications for the inventicions and patents as the Ass 2) Each undersigned agreement or continuation or continuation or continuation or continuation or continuation of the Internation of the Internation of the Internation a grant of a valid United States resulting to convey the entire internation that this assignment is 1 and 10 are the Internation of the United States resulting the United States resulting the United States resulting the International Inter	on, and any pignee may de ignee may de division ther in obtaining rees to execu- tional Conve- rees to perfor- nited States pi thorizes and ang from said so therein asso binding on hi- reby grants to	patent(s) issuing thereon, and a sem necessary. te all papers necessary in connucct, and a patent or reissue applications and documents an antion for Protection of Industrian all affirmative acts which meatent to the Assignee. requests the Commissioner of application(s) to the said Assigned, and that he has not exect and his heirs, successors, as the firm of Olliff & Berringger.	lso to execute section with any plication based ith such interfed deform any all Property or say be necessar; the U.S. Patent gnee, as Assign cuted, and will signs and legal, P.C. the powe.	act which may be necessary in connect imilar agreements. y to obtain, maintain or confirm by reist and Trademark Office to issue any and the entire interest, and covenants and execute, any agreements in conflice	h such concerning perate with tion with ssue or d all Letters that he has t herewith, er
	In witness whereof, exec	uted by the	undersigned on the date(s) of	pposite the un	dersigned name(s).	
Date			Inventor Signature			(SEAL)
Date	October 16, 2009				NMOCHI Kazuhito Kennochi	
Date	October 19, 2009		Inventor Signature	Hiroyasu YC	коча <u>ма Ниочали Ужоуата</u>	(SEAL)
Date	<u> </u>		Inventor Signature	Tomohiro IN	OUE	(SEAL)
Date			Inventor Signature	Shigeto SAK	ASHITA	(SEAL)
Date			Inventor Signature			(SEAL)
Date			Inventor Signature		 	(SEAL)
Date			Inventor Signature		 -	(SEAL)
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