502885976 07/10/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2932573

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY	DATA						
			Name		Execution Date		
YUICHI UCHIDA				06/16/2014			
YUMA IGARASHI					06/18/2014		
HIDEMITSU NEGISHI					06/20/2014		
NAOTAKA SASAKI					06/20/2014		
	ΑΤΑ						
Name: JFE STEEL CORPORATION							
Street Address:	2-3, U	2-3, UCHISAIWAI-CHO 2-CHOME CHIYODA-KU					
City:	TOKY	ТОКҮО					
State/Country:	JAPAN	JAPAN					
Postal Code:	100-00	100-0011					
Application Number: 1		1436	14365759				
PROPERTY NUMBER	S Total:	1		-			
Application Number: 143		1436	j5759				
	DATA						
CORRESPONDENCE DATA Fax Number: (215))656-2498				
(-)			e-mail address first; if that is unsuccessful, it will be sent				
using a fax number, i		d; if tl	hat is unsuccessful, it will be ser				
		556-3381					
			hil@dlapiper.com ROUP OF DLA PIPER LLP (US)				
•			MARKET STREET, SUITE 4900				
			ADELPHIA, PENNSYLVANIA 19103				
			GMP-14-1728				
NAME OF SUBMITTER:			T. DANIEL CHRISTENBURY				
SIGNATURE:							
DATE SIGNED:			07/10/2014				
			This document serves as an Oath/Declaration (37 CFR 1.63).				
Total Attachments: 2							
source=Assignment#pa	•						
ource=Assignment#pa	ge2.tif						

502885976

PATENT REEL: 033284 FRAME: 0435

GMP-14-1728

COMBINED DECLARATION/ASSIGNMENT

WHEREAS, we

Yuichi Uchida of Tokyo, Japan Yuma Igarashi of Tokyo, Japan Hidemitsu Negishi of Tokyo, Japan Naotaka Sasaki of Tokyo, Japan

(hereinafter referred to as "the undersigned"), have made an invention entitled CONVERTER STEELMAKING METHOD, identified in International Application No. PCT/JP2012/82905, and US Application No. 14/365,759 , (DLA Piper is authorized to insert the Serial No. when known),

the above-identified application was made or authorized to be made by the persons executing this Declaration;

we believe that we are the original joint inventors of a claimed invention in the application;

we hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, JFE 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

EAST\76976449.1

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 dates set forth below.

June 16, 2014 Date

<u>June 18, 2019</u> Date

June 20, 2014 Date

June 20, 2014 Date Yuichi Uchida Yuichi Uchida

Yuma Igarashi Yuma Igarashi

Hidemitsu Negishi Hidemitsu Negishi

Naotaka Sasaki Naotaka Sasaki

EAST\76976449.1

PATENT REEL: 033284 FRAME: 0437

RECORDED: 07/10/2014