PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4076998

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RINYA KOJO	09/10/2015
SATOSHI ORO	09/16/2015
HIROMASA HAYASHI	09/18/2015
YOHEI TAKANAGA	09/14/2015
ATSUSHI YAMAMOTO	09/24/2015

RECEIVING PARTY DATA

Name:	JFE STEEL CORPORATION	
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Internal Address:	CHIYODA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	100-0011	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14392254	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	JFE-15-1542 (308692-424)	
NAME OF SUBMITTER:	T. DANIEL CHRISTENBURY	
SIGNATURE:	/TDC/	
DATE SIGNED:	09/30/2016	

PATENT REEL: 039903 FRAME: 0452 504030339

Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif

PATENT REEL: 039903 FRAME: 0453

COMBINED DECLARATION/ASSIGNMENT

WHEREAS, we

Rinya KOJO	of	Kurashiki , JAPAN
Satoshi ORO	of	Fukuyama , JAPAN
Hiromasa HAYASHI	of	Kawasaki , JAPAN
Yohei TAKANAGA	of	Kurashiki , JAPAN
Atsushi YAMAMOTO	of	Tokyo , JAPAN

(hereinafter referred to as "the undersigned"), have made an invention entitled

METHOD FOR CUTTING AND REMOVING DEPOSIT ON EDGE OF CUBOID METAL MATERIAL AND REMOVAL DEVICE

identified in International Application No. <u>PCT/JP2014/003336</u>, and US application No. (DLA Piper is authorized to insert the Serial No. when known) 14/392,254

the above-identified application was made or authorized to be made by the person 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, Uchisaiwaicho 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 sells, assigns and transfers 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

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PATENT REEL: 039903 FRAME: 0454 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 dates set forth below.

_Se	ptember 10, 2015
Date '	

September 18, 2015

Date

September 14, 2015

Date

September 24, 2015

Date