503022578 10/17/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ADDRESS OF THE ASSIGNEE previously recorded on Reel 032767 Frame 0522. Assignor(s) hereby confirms the ASSIGNMENT.	

CONVEYING PARTY DATA

Name	Execution Date
HIDETA ARAI	03/07/2014
ATSUSHI MIKI	03/10/2014
KOHSUKE ARAI	03/17/2014
KAICHIRO NAKAMURO	03/17/2014

RECEIVING PARTY DATA

Name:	JX NIPPON MINING & METALS CORPORATION	
Street Address:	6-3, OTEMACHI 2-CHOME	
Internal Address:	CHIYODA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1008164	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14342313

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: docket@marshallip.com

Correspondent Name: MARSHALL, GERSTEIN & BORUN LLP

Address Line 1: 233 SOUTH WACKER

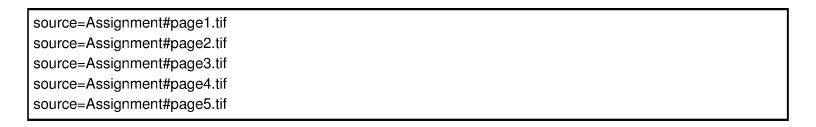
Address Line 2: SUITE 6300

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	27391/48330
NAME OF SUBMITTER:	CHRISTINE HILLS
SIGNATURE:	/Christine Hills/
DATE SIGNED:	10/17/2014
	•

Total Attachments: 5

PATENT REEL: 034012 FRAME: 0850



PATENT REEL: 034012 FRAME: 0851



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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIDETA ARAI	03/07/2014
ATSUSHI MIKI	03/10/2014
KOHSUKE ARAI	03/17/2014
KAICHIRO NAKAMURO	03/17/2014

RECEIVING PARTY DATA

Name:	JX NIPPON MINING & METALS CORPORATION
Street Address:	1-2, SHIROGANE-CHO 1-CHOME
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State/Country:	JAPAN
Postal Code:	1008164

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14342313	

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Address Line 2: 6300 WILLIS TOWER

Address Line 4: CHICAGO, ILLINOIS 60606-6357

ATTORNEY DOCKET NUMBER: 27391/48330 NAME OF SUBMITTER: JANIS WILSON Signature: /Janis Wilson/ Date: 04/28/2014

Total Attachments: 3

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ASSIGNMENT

International Application No: PCT/JP2013/080480

Filed:

November 11, 2013

Title:

SURFACE TREATED COPPER FOIL AND LAMINATE USING THE SAME

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned hereby assigns to *JX Nippon Mining & Metals Corporation* ("Assignee") and its successors and assigns the entire right, title, and interest in and to the inventions of the undersigned disclosed in the application listed above, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or extensions thereof, including, without limitation, the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present, and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and requests the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

Each of the undersigned authorizes the attorneys of record in the application listed above to insert in this assignment the title, filing date, and application number of the application listed above when officially known.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original sole inventor or an original joint inventor with another undersigned of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in

this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all his or her right, title, and interest herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the right, title, and interest herein assigned.

Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration, or affidavit relating thereto that said Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the right, title, and interest assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said right, title, and interest will be held and enjoyed by said Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date:	March	.2,201	4
			_

Hideta ARAI

Date: <u>March</u>. 10, 2014

Atsushi Miki

2

27391/47688

Date:	March. 17.	2014

Robsuke and

Date: ____March 17, 2014

Kajchiro Makamuru

3

27391/47688