

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>KENICHI NAGATA</td> <td>11/06/2013</td> </tr> <tr> <td>TOMIO OTSUKI</td> <td>11/06/2013</td> </tr> <tr> <td>TAKEO OKABE</td> <td>11/06/2013</td> </tr> <tr> <td>NOBUHITO MAKINO</td> <td>11/06/2013</td> </tr> <tr> <td>ATSUSHI FUKUSHIMA</td> <td>11/06/2013</td> </tr> </tbody> </table>		Name	Execution Date	KENICHI NAGATA	11/06/2013	TOMIO OTSUKI	11/06/2013	TAKEO OKABE	11/06/2013	NOBUHITO MAKINO	11/06/2013	ATSUSHI FUKUSHIMA	11/06/2013
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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:	100-8164												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14118591</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14118591								
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Application Number:	14118591												
CORRESPONDENCE DATA													
Fax Number:	(215)540-5818												
Phone:	215 540 9200												
Email:	docketing@howsoniplaw.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	WILLIAM BAK, HOWSON & HOWSON LLP												
Address Line 1:	BUILDING 620, SUITE 210												
Address Line 2:	350 SENTRY PARKWAY												
Address Line 4:	BLUE BELL, PENNSYLVANIA 19422												
ATTORNEY DOCKET NUMBER:	OGOSH276USA												

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NAME OF SUBMITTER:	BEA HOUWEN
Signature:	/Bea Houwen/
Date:	11/19/2013
Total Attachments: 2 source=14118591#page1.tif source=14118591#page2.tif	

**ASSIGNMENT**

WHEREAS, Kenichi Nagata, Tomio Otsuki, Takeo Okabe, Nobuhito Makino, and Atsushi Fukushima, hereinafter referred to as ASSIGNORS, have invented and are the owners of an invention entitled "HIGH-PURITY COPPER-MANGANESE-ALLOY SPUTTERING TARGET", said invention being fully set forth and described in the application for Letters Patent of the United States which has been prepared in connection with said invention, and which has been signed by ASSIGNORS; and

WHEREAS, JX Nippon Mining & Metals Corporation, a Japanese Corporation engaged in business at 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo, 100-8164 Japan, hereinafter referred to as ASSIGNEE, is desirous of acquiring the said invention and any and all applications for Letters Patent and any and all Letters Patent of the United States and foreign countries which may be issued therefor;

NOW THEREFORE, THIS IS TO WITNESS, that in consideration of the sum of One Dollar (\$1.00) paid to ASSIGNORS by ASSIGNEE, the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS have sold, assigned and set over, and hereby does sell, assign and set over, unto ASSIGNEE, its successors and assigns, the entire right, title and interest for, to and within the United States and all foreign countries, in and to the aforesaid invention and in and to any and all application for Letters Patent and Letters Patent which may be issued therefor in the United States and in any and all foreign countries.

And ASSIGNORS hereby authorize and request the Commissioner of Patent and Trademarks to issue any and all Letters patent of the United States to ASSIGNEE, its successors and assigns, as the owner of all right, title and interest therein.

And for said consideration, it is hereby covenanted and agreed that at the request and expense of ASSIGNEE, its successors and assigns, ASSIGNOR will execute any further papers and do such other acts and things as may be necessary and proper to procure Letters Patent for said invention in the United States and in such foreign countries as ASSIGNEE, its successors and assigns may elect, and vest the full title thereto in ASSIGNEE, its successors and assigns.

And ASSIGNORS hereby authorize and direct their attorneys to insert, in the space provided below, the serial number and filing date of the aforesaid application for Letters Patent of the United States when the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, this Assignment has been executed on the date accompanying my signature.

Kenichi Nagata 11-06-13  
Kenichi Nagata (Date)

Tomio Otsuki November 6, 2013  
Tomio Otsuki (Date)

Takeo Okabe November 6, 2013  
Takeo Okabe (Date)

Nobuhito Makino November 6, 2013  
Nobuhito Makino (Date)

Atsushi Fukushima 11-06-13  
Atsushi Fukushima (Date)

Application for United States Letters patent Serial Number 14/118,591  
filed 11-19-2013

Howson & Howson  
HOWSON & HOWSON LLP