

PATENT ASSIGNMENT

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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>Atsushi Sato</td><td>07/20/2011</td></tr><tr><td>Yuichiro Nakamura</td><td>07/20/2011</td></tr></tbody></table>	Name	Execution Date	Atsushi Sato	07/20/2011	Yuichiro Nakamura	07/20/2011	
Name	Execution Date						
Atsushi Sato	07/20/2011						
Yuichiro Nakamura	07/20/2011						
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>13147782</td></tr></tbody></table>	Property Type	Number	Application Number:	13147782			
Property Type	Number						
Application Number:	13147782						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Bea Houwen						
Total Attachments: 2 source=13147782#page1.tif source=13147782#page2.tif							

CH \$40.00 13147782

ASSIGNMENT

WHEREAS, Atsushi Sato and Yuichiro Nakamura, hereinafter referred to as ASSIGNORS, have invented and are the owners of an invention entitled "INORGANIC-PARICLE-DISPERSED 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 do 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, ASSIGNORS 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 its 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.

Atsushi Sato July 20, 2011
Atsushi Sato (Date)

Yu. Nakamura July 20, 2011
Yuichiro Nakamura (Date)

Application for United States Letters patent Serial Number 13/147,782 filed on 8-3-, 2011.

Howson & Howson
HOWSON & HOWSON LLP