

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>Kenichi KUWANO</td> <td>10/08/2012</td> </tr> <tr> <td>Atsuko ABE</td> <td>11/05/2012</td> </tr> <tr> <td>Manabu MANABE</td> <td>11/05/2012</td> </tr> <tr> <td>Akira MIURA</td> <td>11/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kenichi KUWANO	10/08/2012	Atsuko ABE	11/05/2012	Manabu MANABE	11/05/2012	Akira MIURA	11/05/2012
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<table border="1"> <tr> <td>Name:</td> <td>JX Nippon Mining & Metals Corporation</td> </tr> <tr> <td>Street Address:</td> <td>6-3, Otemachi 2-chome, Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>100-8164</td> </tr> </table>		Name:	JX Nippon Mining & Metals Corporation	Street Address:	6-3, Otemachi 2-chome, Chiyoda-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	100-8164
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CORRESPONDENCE DATA											
<p>Fax Number: 7032058050 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-205-8000 Email: mailroom@bskb.com, tchau@bskb.com Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP Address Line 1: P.O. Box 747 Address Line 4: Falls Church, VIRGINIA 22040-0747</p>											
ATTORNEY DOCKET NUMBER:	5526-0127PUS1										
NAME OF SUBMITTER:	CRAIG A. MCROBBIE										
<p>Total Attachments: 3 source=2012-11-9 Assignment 5526-0127PUS1#page1.tif source=2012-11-9 Assignment 5526-0127PUS1#page2.tif source=2012-11-9 Assignment 5526-0127PUS1#page3.tif</p>											

OP \$40.00 13698358

A S S I G N M E N T

WHEREAS, we,

Kenichi KUWANO, a citizen of Japan, c/o Technology Development Center,
JX Nippon Mining & Metals Corporation, 1-1-2,
Shirogane-cho, Hitachi-shi, Ibaraki 317-0056, Japan

Atsuko ABE, a citizen of Japan, c/o Technology Development Center,
JX Nippon Mining & Metals Corporation, 1-1-2,
Shirogane-cho, Hitachi-shi, Ibaraki 317-0056, Japan

Manabu MANABE, a citizen of Japan, c/o Technology Development Center,
JX Nippon Mining & Metals Corporation, 1-1-2,
Shirogane-cho, Hitachi-shi, Ibaraki 317-0056, Japan

Akira MIURA, a citizen of Japan, c/o Technology Development Center,
JX Nippon Mining & Metals Corporation, 1-1-2,
Shirogane-cho, Hitachi-shi, Ibaraki 317-0056, Japan

have invented certain new and useful improvements in

METHOD FOR PROCESSING ACIDIC SOLUTION THAT CONTAINS IODIDE
IONS AND IRON IONS

for which we have on Oct. 8 & Nov. 5, 2012 executed an application for
United States Letters Patent under 35 U.S.C. 371 resulting from the
International Application No. PCT/JP2011/061547 filed on May 19, 2011;
and

WHEREAS, JX Nippon Mining & Metals Corporation, a Japanese
Corporation, located at 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo
100-8164 Japan, (hereinafter called the "Assignee"), is desirous of acquiring
the entire right, title and interest in and to said application and the
inventions and improvements therein disclosed so far as the United States of
America is concerned.

NOW, THEREFORE, in good and valuable consideration paid to us
by said Assignee, receipt whereof is hereby acknowledged, we do hereby
assign, sell, transfer and set over unto said Assignee the entire right, title and
interest in and to said application and the inventions and improvements



therein disclosed for the United States and any Letters Patent which may issue therefor in the United States and all divisions, re-issues, continuations, renewals and/or extensions thereof, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, re-issues, continuations, renewals and/or extensions thereof, respectively, a fully and entirely as the same would have been held and enjoyed by us had this Assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, and of the right to make, use or sell the inventions and improvements disclosed therein within the United States and that we have the full right to make this Assignment.

And for the consideration aforesaid, we agree that we will communicate to said Assignee or the representatives thereof any facts known to us respecting the inventions and improvements of the said United States application and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, re-issue, continuation, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interest herein assigned. This Assignment shall be binding upon our heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

Executed at Ibaraki,

this 8th day of October, 2012

Kenichi Kuwano

Kenichi KUWANO

Executed at Ibaraki,

this 5th day of November, 2012

Atsuko Abe

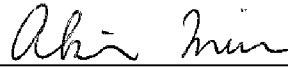
Atsuko ABE

Executed at Ibaraki,
this 5th day of November, 2012



Manabu MANABE

Executed at Ibaraki,
this 5th day of November, 2012



Akira MIURA