

PATENT ASSIGNMENT

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Stylesheet Version v1.1

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>Masaki SANO</td> <td>05/18/2012</td> </tr> <tr> <td>Yoshifumi ABE</td> <td>05/18/2012</td> </tr> <tr> <td>Kazuhiro HATANO</td> <td>05/18/2012</td> </tr> <tr> <td>Koji KATSUKAWA</td> <td>05/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Masaki SANO	05/18/2012	Yoshifumi ABE	05/18/2012	Kazuhiro HATANO	05/18/2012	Koji KATSUKAWA	05/18/2012
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RECEIVING PARTY DATA											
<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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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (703)205-8050</p> <p>Phone: (703)205-8000</p> <p>Email: mailroom@bskb.com, anh-vu.dao@bskb.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Birch, Stewart, Kolasch & Birch, LLP</p> <p>Address Line 1: P.O. Box 747</p> <p>Address Line 4: Falls Church, VIRGINIA 22040-0747</p>											
ATTORNEY DOCKET NUMBER:	5526-0126PUS1										
NAME OF SUBMITTER:	MARC S. WEINER										
<p>Total Attachments: 3</p> <p>source=2012-05-29_Assignment_5526-0126PUS1#page1.tif</p> <p>source=2012-05-29_Assignment_5526-0126PUS1#page2.tif</p> <p>source=2012-05-29_Assignment_5526-0126PUS1#page3.tif</p>											

OP \$40.00 13482421

A S S I G N M E N T

WHEREAS, we,

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

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

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

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

have invented certain new and useful improvements in

PROCESS OF LEACHING GOLD

for which we have on May 18, 2012 executed an application for
United States Letters Patent; 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.

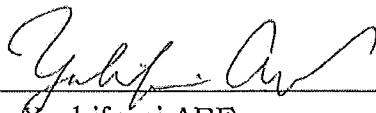
Executed at Ibaraki,

this 18th day of May, 2012

Masaki Sano

Masaki SANO

Executed at Ibaraki,
this 18th day of May, 2012


Yoshifumi ABE

Executed at Ibaraki,
this 18th day of May, 2012


Kazuhiro HATANO

Executed at Ibaraki,
this 18th day of May, 2012


Koji KATSUKAWA