

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Takenari KUWAZAWA	09/21/2009
Akira MIURA	09/14/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NIPPON MINING & METALS CO., LTD.
<b>Street Address:</b>	10-1, Toranomom 2-chome, Minato-ku
<b>City:</b>	Tokyo
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	105-0001
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12625678
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)205-8050
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	703-205-8000
<b>Email:</b>	dlabriny@bskb.com
<b>Correspondent Name:</b>	BIRCH STEWART KOLASCH & BIRCH LLP
<b>Address Line 1:</b>	P.O. BOX 747
<b>Address Line 4:</b>	FALLS CHURCH, VIRGINIA 22040-0747
<b>ATTORNEY DOCKET NUMBER:</b>	1254-0418PUS1
<b>NAME OF SUBMITTER:</b>	Marc S. Weiner
<b>Total Attachments: 2</b> source=20091125ExecutedAssignment#page1.tif source=20091125ExecutedAssignment#page2.tif	

CH \$40.00 12625678

501034055

**PATENT**  
**REEL: 023615 FRAME: 0237**

Attorney's Docket No.: 1254-0418PUS1**Assignment of Application**

WHEREAS, I (WE) \_\_\_\_\_

**Takenari KUWAZAWA and Akira MIURA** of both c/o Technology Development Center,  
**NIPPON MINING & METALS CO., LTD., 1-1-2, Shirogane-cho, Hitachi-shi, Ibaraki**  
**317-0056 Japan**

\_\_\_\_\_, respectively,  
 have invented certain new and useful improvements in: \_\_\_\_\_

**METHOD OF LEACHING COPPER SULFIDE ORE**

for which an application for Letters Patent was executed on even date herewith  
 (Application No. 12/625,678, filed November 25, 2009), and

WHEREAS, **NIPPON MINING & METALS CO., LTD.**

(hereinafter referred to as "ASSIGNEE") having a place of business at: \_\_\_\_\_  
10-1, Toranomom 2-chome, Minato-ku, Tokyo 105-0001 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to  
 any Letters Patent that may be granted therefore in the United States and its territorial  
 possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the  
 receipt whereof is hereby acknowledged, and for other good and valuable consideration, I  
 (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and  
 exclusive right to the said invention in the United States and its territorial possessions and in  
 all foreign countries and the entire right, title and interest in and to any and all Letters Patent  
 which may be granted therefore in the United States and its territorial possessions and in any  
 and all foreign countries and in and to any and all divisions, reissues, continuations,  
 substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and  
 its territorial possessions and any official of any and all foreign countries to issue any and all  
 of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire  
 right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE,  
 its (his) successors and assigns, to the full end of the term for which said Letters Patent may  
 be granted, as fully and entirely as the same would have been held by me (us) had this  
 Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of BIRCH, STEWART, KOLASCH & BIRCH, LLP of 8110 Gatehouse Road, Suite 100 East, Falls Church, Virginia 22042-1248 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: September 21, 2009

Takenari Kuwazawa  
(Signature of inventor) **Takenari KUWAZAWA**

Date: September 14, 2009

Akira Miura  
(Signature of inventor) **Akira MIURA**