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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

SHUICHI IRUMATA
YASUHIRO YAMAKOSHI

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 01-24-07 01-24-07

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: NIPPON MINING & METALS CO., LTD.

Internal Address: _____

Street Address: 10-1, TORANOMON 2-CHOME

City: MINATO-KU

State: TOKYO

Country: JAPAN Zip: 105-0001

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

12/640,075

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: HOWSON & HOWSON LLP

Internal Address: _____

Street Address: SUITE 210, 501 OFFICE CENTER DRIVE

City: FT. WASHINGTON

State: PA Zip: 19034

Phone Number: 215-640-9216

Fax Number: 215-640-5818

Email Address: WBAK@HOWSONANDHOWSON.COM

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

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9. Signature:


Signature

December 18, 2009

Date

WILLIAM BAK

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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OGOSH62USA

ASSIGNMENT

WHEREAS, Shuichi Irumata and Yasuhiro Yamakoshi, hereinafter referred to as ASSIGNORS, have invented and are the owners of an invention entitled BARRIER FILM FOR FLEXIBLE COPPER SUBSTRATE AND SPUTTERING TARGET FOR FORMING BARRIER FILM, 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, Nippon Mining & Metals Co., Ltd., a Japanese corporation engaged in business at 10-1, Toranomon 2-chome, Minato-ku, Tokyo, 105-0001 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, 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 by us on the dates accompanying our signatures.

Shuichi Irumata 24th Jan. 2007
Shuichi Irumata (Date)

Yasuhiro Yamakoshi 24th Jan. 2007
Yasuhiro Yamakoshi (Date)

Application for United States Letters patent Serial Number 11/573,167
filed February 2, 2007

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