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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Norihiko MIYASHITA
Tomoyasu YANO
Ryoma TSUKUDA
Isamu YASHIMA

4.75.03

2. Name and address of receiving party(ies):

MITSUI MINING & SMELTING CO., LTD.
1-11-1, Osaki, Shinagawa-ku,
Tokyo 141-8584 Japan

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: March 25, 2003

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

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
10/365,384

B. Patent No.(s)
NOT YET ASSIGNED

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC

WASHINGTON OFFICE



23373

PATENT TRADEMARK OFFICE

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed.
☐ Authorized to be charged to Deposit Account No. 19-4880.

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Alan J. Kasper

Reg. No. 25,426

April 25, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks

Box Assignment

Washington, D.C. 20231

04/30/2003 6TON11 00000213 10365384

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PATENT
REEL: 014005 FRAME: 0712

Assignment

Whereas, I/We, Norihiko MIYASHITA, Tomoyasu YANO, Ryoma TSUKUDA and Isamu YASHIMA of c/o Mitsui Mining & Smelting Co., Ltd., Corporate R&D Center 1333-2, Haraichi, Ageo-shi, SAITAMA 362-0021 JAPAN

hereinafter called assignor(s), have invented certain improvements in PROCESS FOR PREPARING P-TYPE THERMOELECTRIC MATERIAL

and executed an application for Letters Patent of the United States of America therefor on March 25, 2003; and

Whereas,

Mitsui Mining & Smelting Co., Ltd.
1-11-1, Osaki, Shinagawa-ku,
Tokyo 141-8584 Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number 10/365,384 and Confirmation number , filed February 13, 2003) the filing date and application number of said application when known.

Date: March 25, 2003 Norihiko Miyashita
s/ Norihiko MIYASHITA
Date: March 25, 2003 Tomoyasu Yano
s/ Tomoyasu YANO
Date: March 25, 2003 Ryoma Tsukuda
s/ Ryoma TSUKUDA
Date: March 25, 2003 Isamu Yashima
s/ Isamu YASHIMA

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)