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1. Name of conveying party(ies):

Hirofumi WATANABE
Takuya KAKUMAE



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: May 26, 2005

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)
11/119,855

B. Patent No.(s)
Unknown

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

CUSTOMER NUMBER

6. Total number of applications and patents involved:

1

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

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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

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July 26, 2005

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PATENT
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Assignment

Whereas, I/We, Hirofumi WATANABE, and Takuya KAKUMAE, of c/o NIRASAKI Plant. Mitsui Mining & Smelting CO., LTD., 1200, Shimojo-Nishiwari, Okusa-cho Nirasaki-shi, Yamanashi 407-8555 Japan, hereinafter called assignor(s), have invented certain improvements in

DOOR OPERATING APPARATUS, ELECTROMAGNETIC CLUTCH, AND
COUPLING MECHANISM

and executed an application for Letters Patent of the United States of America therefor on
May 26, 2005; 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 of the 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 11/119,855 and Confirmation number _____, filed May 3, 2005

) the application number and filing date of said application when known.

Date: May 26, 2005 Hirofumi Watanabe
Hirofumi WATANABE

Date: May 26, 2005 Takuya Kakumae
Takuya KAKUMAE

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