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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):

Toshiaki KAWANISHI
Takayuki TAKAHATA
Kiyoshi YAMAGISHI

2. Name and address of receiving party(ies)

Name: Mitsui Mining & Smelting Co., Ltd.
Internal Address: _____

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

Street Address: _____

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

Execution Date(s) October 5, 2005

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

11-1, Osaki 1-chome, Shinagawa-ku, Tokyo

City: _____

State: _____

Country: Japan Zip: 1418584

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Kent E. Baldauf
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Street Address: 700 Koppers Building
436 Seventh Avenue
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State: PA Zip: 15219-1845
Phone Number: 412-471-8815
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Email Address: webblaw@webblaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed (w/ filing fee)
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
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b. Deposit Account Number 23-0650
Authorized User Name _____

9. Signature:

Kent E. Baldauf
Signature

January 11, 2006

Date

Kent E. Baldauf, Registration No. 25,826

Name of Person Signing

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

3

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

{W0240459.1}

PATENT
REEL: 017466 FRAME: 0696

ASSIGNMENT

WHEREAS, WE, Toshiaki KAWANISHI, Takayuki TAKAHATA, and Kiyoshi YAMAGISHI, residing in c/o MITSUI MINING & SMELTING CO., LTD., Corporate R&D Center, 1333-2, Haraichi, Ageo-shi, Saitama 3620021 Japan, respectively, have invented certain new and useful improvements in the invention entitled "LIQUID TYPE IDENTIFICATION APPARATUS FOR LIGHT OIL AND LIQUID TYPE IDENTIFICATION METHOD FOR LIGHT OIL"

_____ " for which we have this day executed an application for United States Letters Patent;

AND, WHEREAS, MITSUI MINING & SMELTING CO., LTD., a corporation of Japan, having a place of business at 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo 1418584 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.

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which 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 all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, 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, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use, or sell the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, 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

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or enable said assignee to obtain and enforce full benefits from the rights and interests 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.

Dated October 5, 2005

Toshiaki Kawanishi

(Toshiaki KAWANISHI)

Dated October 5, 2005

Takayuki Takahata

(Takayuki TAKAHATA)

Dated October 5, 2005

Kiyoshi Yamagishi

(Kiyoshi YAMAGISHI)