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**1. Name of conveying party(ies)/Execution Date(s):**

Takayuki TAKAHATA, Toshiaki KAWANISHI and Kiyoshi YAMAGISHI

Execution Date(s) July 16, 2004Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**Name: MITSUI MINING & SMELTING CO., LTD.

Internal Address: \_\_\_\_\_

Street Address: 11-1, Osaki 1-chome,Shinagawa-kuCity: Tokyo

State: \_\_\_\_\_

Country: Japan Zip: 141-8584Additional 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)

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40.00 DP

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Kent E. BaldaufInternal Address: Webb Ziesenheim LogsdonOrkin & Hanson, P.C.Street Address: 700 Koppers Building436 Seventh AvenueCity: PittsburghState: PA Zip: 15219-1818Phone Number: 412-471-8815Fax Number: 412-471-4094Email 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  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 23-0650

Authorized User Name \_\_\_\_\_

9. Signature: Kent E. Baldauf, Jr. March 9, 2005  
Signature Date

Kent E. Baldauf, Jr., Reg. No. 36,082

Name of Person Signing

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

2

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**PATENT**  
**REEL: 017009 FRAME: 0745**

## ASSIGNMENT

1) TAKAHATA, Takayuki, 2) KAWANISHI, Toshiaki and  
WHEREAS WE 3) YAMAGISHI, Kiyoshi  
1) - 3) c/o MITSUI MINING & SMELTING CO., LTD., CORPORATE R&D CENTER,  
residing in. 1333-2, Haraichi, Ageo-shi, Saitama 362-0021, Japan  
respectively, have invented certain new and useful improvements in the invention entitled  
APPARATUS AND METHOD FOR IDENTIFYING CONCENTRATION OF UREA AND APPARATUS for  
AND METHOD FOR REDUCING EXHAUST GAS OF CAR USING THE SAME  
which a patent application was filed in the United States Patent and Trademark Office on  
and bears Serial No.

AND, MITSUI MINING & SMELTING CO., LTD., a corporation  
of Japan, having a place of business at 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo 141-8584, 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 vend 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 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.

Date July 16, 2004

Inventor Takayuki Takahata

Date July 16, 2004

Inventor Toshiaki Kawanishi

Date July 16, 2004

Inventor Kiyoshi Yamagishi