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FORM PTO-1595
(Rev. 6-93)

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Kenichi Hiraizumi; Atsushi Koike;
Hiromitsu Miyajima; Kiyoshi Yamagishi
Additional name(s) of conveying party(ies) attached?
☐ Yes ☒ No

2. Name and address.
Name: **Mitsui Mining & Smelting Co., Ltd.**
Internal Address:
Street Address: **11-1, Osaki 1-chome,**
Shinagawa-ku, Tokyo, Japan
City: State: Zip:
Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: **January 31, 2003**

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) **10/344,033** B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: **Ronald R. Santucci**
Internal Address: **Frommer Lawrence & Haug, LLP**
Street Address: **745 Fifth Avenue**
City: **New York** State: **New York** Zip: **10151**

6. Total number of applications and patents involved **1**

7. Total fee (37 CFR 3.41) **\$ 40**

- ☐ Enclosed
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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.

Ronald R. Santucci, Reg. No. 28,988

Name of Person Signing

Signature

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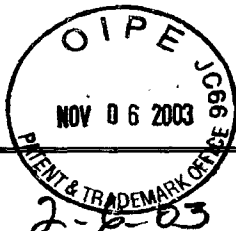
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PATENT
REEL: 014674 FRAME: 0050



05-20-2003



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1. Name of conveying party(ies) Kenichi Hiraizumi; Atsushi Koike; Hiromitsu Miyajima; Kiyoshi Yamagishi Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: Mitsui Mining & Smelting Co., Ltd. Internal Address: Street Address: 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo, Japan City: State: Zip: Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: January 31, 2003	

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) PCT/JP01/06923 B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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5. Name and address of party to whom correspondence concerning document should be mailed: Name: Ronald R. Santucci Internal Address: Frommer Lawrence & Haug, LLP Street Address: 745 Fifth Avenue City: New York State: New York Zip: 10151	6. Total number of applications and patents involved 1 7. Total fee (37 CFR 3.41) \$ 40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #50-0320 8. Deposit account number: 50-0320 (Attach duplicate copy of this page if paying by deposit account)
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9. <u>Statement and signature</u> 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. Ronald R. Santucci, Reg. No. 28,988 Name of Person Signing	 Signature	02/06/03 Total number of pages including cover sheet, attachments, and document): 2
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Express Mail No.: EV196822895US

PATENT

REEL: 014674 FRAME: 0051

INVENTION/PATENT APPLICATION ASSIGNMENT
FROM INVENTOR(S) TO COMPANY

WHEREAS I/WE **Kenichi Hiraizumi of Saitama, Japan** , **Atsushi Koike of Saitama, Japan**, **Hiromitsu Miyajima of Saitama, Japan** , **Kiyoshi Yamagishi of Saitama, Japan** , respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

FLOW RATE MEASURING METHOD AND FLOWMETER

, executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;
OR

for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____;

AND WHEREAS, **mitsui mining & smelting co., ltd.** a corporation of the State of **Japan** and having an address of **11-1, Osaki 1-chome, Shinagawa-ku, Tokyo, Japan** , hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries that may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto said assignee, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries that may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or causes of action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States that may be issued for said invention to said assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date: January 31, 2003

Kenichi Hiraizumi
Kenichi Hiraizumi

Date: January 31, 2003

Atsushi Koike
Atsushi Koike

Date: January 31, 2003

Hiromitsu Miyajima
Hiromitsu Miyajima

Date: January 31, 2003

Kiyoshi Yamagishi
Kiyoshi Yamagishi

Express Mail No.: EV196822895US

PATENT**RECORDED: 02/06/2003****REEL: 014674 FRAME: 0052**