

06-01-2000



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MTH-48

RECORDATION FORM COVER SHEET  
PATENTS ONLY

05/19/00

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)  
Document ID# \_\_\_\_\_

Correction of PTO Error  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

Corrective Document  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

Conveyance Type

Assignment  Security Agreement

License  Change of Name

Merger  Other \_\_\_\_\_

**U.S. Government**  
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Departmental File  Secret File

JCS U.S. PTO  
05/19/00

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) SHINODA, Mitsuo Execution Date Month Day Year 05 12 00

Name (line 2) \_\_\_\_\_

Second Party

Name (line 1) KAGAWA, Keiichi Execution Date Month Day Year 5 12 00

Name (line 2) \_\_\_\_\_

09/57495

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Mitsui Mining & Smelting Company, Ltd.

Name (line 2) \_\_\_\_\_

Address (line 1) 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo, Japan

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_ City State/Country Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name \_\_\_\_\_

Address (line 1) \_\_\_\_\_

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

Address (line 4) \_\_\_\_\_

05/26/2000 KHARLING 00000022 09574957  
02 FC:581

40.00 OP

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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0451-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0451-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**Correspondent Name and Address**      **Area Code and Telephone Number**

**Name**

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**Address (line 2)**

**Address (line 3)**

**Address (line 4)**

**Pages**      Enter the total number of pages of the attached conveyance document including any attachments.      #

**Application Number(s) or Patent Number(s)**       Mark if additional numbers attached

*Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).*

| Patent Application Number(s) |                      |                      | Patent Number(s)     |                      |                      |
|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/>         | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/>         | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/>         | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.      Month  Day  Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT       PCT       PCT

PCT       PCT       PCT

**Number of Properties**      Enter the total number of properties involved.      #

**Fee Amount**      Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:      Enclosed       Deposit Account

Deposit Account  
(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:      #

Authorization to charge additional fees:      Yes       No

**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. Charges to deposit account are authorized, as indicated herein.*

Charles A. Muserlian. 19,683      *Charles A. Muserlian*      May 19, 2000

**Name of Person Signing**      **Signature**      **Date**

RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

10326 U.S. PTO  
05/19/00  
05/19/00

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) FUCHINO, Seiji

Execution Date  
Month Day Year  
05 12 00

Name (line 2)

Name (line 1) MORITA, Kouji

Execution Date  
Month Day Year  
05 12 00

Name (line 2)

Name (line 1) TANINO, Yoshiaki

Execution Date  
Month Day Year  
05 12 00

Name (line 2)

Receiving Party(ies)

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Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

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Mark if additional numbers attached

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Patent Application Number(s)

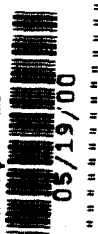
Patent Number(s)

Grid for Patent Application Number(s) with 5 rows and 3 columns of input boxes.

Grid for Patent Number(s) with 5 rows and 3 columns of input boxes.

RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

16526 U.S. PTO  
05/19/00



Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) MATSUO, Makoto

Execution Date  
Month Day Year  
05 12 00

Name (line 2)

Name (line 1) OYAMA, Akira

Execution Date  
Month Day Year  
05 12 00

Name (line 2)

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

Receiving Party(ies)

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Application Number(s) or Patent Number(s)

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Patent Application Number(s)

Patent Number(s)

Grid for Patent Application Number(s) with 5 rows and 3 columns of input boxes.

Grid for Patent Number(s) with 5 rows and 3 columns of input boxes.

# Assignment

**In Consideration** of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned by the Assignee,

Mitsui Mining & Smelting Company, Ltd.

a corporation organized under the laws of Japan  
receipt whereof is hereby acknowledged, the undersigned by these presents hereby sold, assigned, transferred and set over unto the said assignee the entire right, title and interest in and to the invention or improvement in

Zinc Alloy Powder and Alkaline Battery Using the Same  
said invention being fully described and/or claimed in the application for Letters Patent of the United States of America 1) executed this date, or 2) Serial No. \_\_\_\_\_  
filed \_\_\_\_\_ in and for the United States and all foreign countries, the same to be held and enjoyed by said assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

**And Said Assignee is Hereby Authorized** to make application for and to receive Letters Patent for said invention in any of said countries at its election.

**And By This Covenant The Undersigned** will execute or procure any further necessary assurance of title to said invention and Letters Patent; and at any time, upon the request and at the expense of said assignee, will execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patents which may be granted therefor in said Assignee, its successors, assigns or other legal representatives, and, upon the request and at the expense of said assignee, will execute any additional or divisional applications for patents for said invention, or any part or parts thereof, and for the reissue of any Letters Patents to be granted therefor, and will make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of said assignee, its successors, assigns or other legal representatives.

**And The Commissioner of Patents and Trademarks is Hereby Authorized and Requested** to issue any and all Letters Patent of the United States for said invention to said assignee.

|       |                     |   |      |
|-------|---------------------|---|------|
| Dated | <u>May 12, 2000</u> | <u>Mitsuo Shinoda</u><br>Mitsuo SHINODA   | L.S. |
| Dated | <u>May 12, 2000</u> | <u>Keiichi Kagawa</u><br>Keiichi KAGAWA   | L.S. |
| Dated | <u>May 12, 2000</u> | <u>Seiji Fuchino</u><br>Seiji FUCHINO     | L.S. |
| Dated | <u>May 12, 2000</u> | <u>Kouji Morita</u><br>Kouji MORITA       | L.S. |
| Dated | <u>May 12, 2000</u> | <u>Yoshiaki Tanino</u><br>Yoshiaki TANINO | L.S. |
| Dated | <u>May 12, 2000</u> | <u>Makoto Matsuo</u><br>Makoto MATSUO     | L.S. |
| Dated | <u>May 12, 2000</u> | <u>A. Oyama</u><br>Akira OYAMA            | L.S. |