

03-27-2003

FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)



ET

U.S. Department of Commerce  
Patent And Trademark Office

102401999

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

## 1. Name of conveying party(ies):

Junshi Yoshioka (12/12/01)  
Akiko Sugimoto (12/12/01)  
Makoto Dobashi (12/12/01)  
Ken-ichiro Iwakiri (12/12/01)  
Yutaka Hirasawa (12/12/01)

3.25.03

Additional name(s) of conveying party(ies) attached?

\_\_\_ Yes ☒ No

## 3. Nature of conveyance:

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

Execution Date: December 12, 2001

## 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: TokyoState: \_\_\_\_\_ Zip: 141-8584Country: JapanAdditional name(s) & address(es) attached? \_\_\_ Yes ☒ No4. Application number(s) or registration number(s): 10/031,279

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? \_\_\_ Yes ☒ No

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

Name: Harold N. WellsInternal Address: Jenkins & Gilchrist225 West WashingtonCity: Chicago State: IL Zip: 60606-34186. Total number of applications and patents involved 17. Total fee (37 C.F.R. 3.41) \$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account8. Deposit account number: 10-0447/47163-00044  
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 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.*Harold N. Wells

Name of Person Signing

Signature

3/18/03

Date

Total number of pages including cover sheet, attachments and document: 5

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Chicago 251863v1 47173-00044

PATENT  
REEL: 013878 FRAME: 0957

**ASSIGNMENT**

WHEREAS, We, JUNSHI YOSHIOKA, AKIKO SUGIMOTO, MAKOTO DOBASHI, KEN-ICHIRO IWAKIRI and YUTAKA HIRASAWA have invented certain new and useful improvements in the following: **ELECTRODEPOSITED COPPER FOIL WITH CARRIER AND METHOD FOR PRODUCING THE SAME** for which we have made application for United States Letters Patent; and,

WHEREAS, MITSUI MINING & SMELTING CO., LTD., a corporation organized and existing under the laws of Japan, having its principal place of business **11-1 Osaki 1-chome, Shinagawa-ku, Tokyo, 141-8584 Japan** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives the entire right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefore, and all provisionals, divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

We further authorize and direct our attorneys to insert below\* the serial number and filing date of said application now identified as Case Docket No. **47163-00044** as soon as the same shall have been made known to them by the United States Patent Office.

\*Serial Number: **10/031,279**

Filing Date: **11/7/01**

December, 2001.

Name: **Junshi Yoshioka**  
Address: **c/o Mitsui Mining & Smelting Co., Ltd.**  
**Corporate R&D Center**  
**1333-2 Haraichi**  
**Ageo-shi**  
**Saitama-ken 362-0021, JAPAN**

STATE OF )  
 ) ss.  
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared \_\_\_\_\_, known by me to be the person of the above name who signed and sealed the foregoing instrument, and acknowledged the same to be his own free act and deed.

Notary Public  
My Commission Expires:

December, 2001.

Name: **Akiko Sugimoto**  
Address: **c/o Mitsui Mining & Smelting Co., Ltd.**  
**Corporate R&D Center**  
**1333-2 Haraichi**  
**Ageo-shi**  
**Saitama 362-0021, JAPAN**

STATE OF )  
 ) ss.  
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared \_\_\_\_\_, known by me to be the person of the above name who signed and sealed the foregoing instrument, and acknowledged the same to be his own free act and deed.

Notary Public  
My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 12<sup>th</sup> day of  
December, 2001.

Makoto Dobashi  
Name: **Makoto Dobashi**  
Address: **c/o Mitsui Mining & Smelting Co., Ltd.**  
**Corporate R&D Center**  
**1333-2 Haraichi**  
**Ageo-shi**  
**Saitama 362-0021, JAPAN**

STATE OF )  
 ) ss.  
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me, a Notary Public in  
and for the State and County aforesaid, personally appeared, known by me to be the person of the  
above name who signed and sealed the foregoing instrument, and acknowledged the same to be his  
own free act and deed.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

[seal]

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 12<sup>th</sup> day of  
December, 2001.

Kenichiro Iwakiri  
Name: **Ken-ichiro Iwakiri**  
Address: **c/o Mitsui Mining & Smelting Co., Ltd.**  
**Copper Foil Sector Copper Foil Division**  
**656-2 Kamakurabashi**  
**Ageo-shi**  
**Saitama-ken 362-0013, JAPAN**

STATE OF )  
 ) ss.  
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me, a Notary Public in  
and for the State and County aforesaid, personally appeared, known by me to be the person of the  
above name who signed and sealed the foregoing instrument, and acknowledged the same to be his  
own free act and deed.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

[seal]

December, 2001.

## Ageo-shi

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) SS.

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own free act and deed.

Notary Public  
My Commission Expires: