



06-29-2001

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



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

1. Name of conveying parties: 06/20/01
TAKUYA YAMAMOTO, TAKASHI KATAOKA, AND
NAOTOMI TAKAHASHI

Additional name(s) & party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 5/22/2001

2. Name and address of receiving party(ies):
Name: Mitsui Mining & Smelting Co., Ltd.

Internal Address: _____

Street Address: 11-1, Osaki 1-chome,
Shinagawa-ku
Tokyo 141-8584, JAPAN

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

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: 5/22/2001

A. Patent Application No.(s)

09/885552

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Richard S. Roberts

Internal Address: Roberts & Mercanti, LLP

Street Address: P.O. Box 484

City: Princeton State: NJ Zip: 08542

6. Total number of applications and patents involved: _____

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

Enclosed

Authorized to be charged to deposit account

8. Deposit account number: _____
(Attach duplicate copy of this page if paying by deposit account)

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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.

Richard S. Roberts
Name of Person Signing

Signature

June 20, 2001
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents, Box Assignments **PATENT**
Washington, D.C. 20231

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16978 U.S. PTO
09/885552



06/20/01

ASSIGNMENT

WHEREAS the UNDERSIGNED, Takuya YAMAMOTO , Takashi KATAOKA , (and) Naotomi TAKAHASHI, citizen(s) of JAPAN, residing at c/o Mitsui Mining & Smelting Co., Ltd., Copper Foil Sector Copper Foil Division, 656-2 Kamakurabashi, Ageo-shi, Saitama 362-0013, Japan; has/have invented certain new and useful improvements (INVENTION) disclosed, shown, and described in an APPLICATION for Letters Patent of the United States entitled:

METHOD FOR MANUFACTURING PRINTED WIRING BOARD COMPRISING ELECTRODEPOSITED COPPER FOIL WITH CARRIER AND RESISTOR CIRCUIT; AND PRINTED WIRING BOARD COMPRISING RESISTOR CIRCUIT

said APPLICATION being executed concurrently herewith; and

WHEREAS, Mitsui Mining & Smelting Co., Ltd.

a corporation of Japan _____, having an office at 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo 141-8584, JAPAN _____

(ASSIGNEE) is desirous of acquiring the entire right, title and interest in and to the INVENTION, in this and any foreign country, and in and to any Letters Patent of the United States or any foreign country which may be granted embracing the INVENTION.

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and for other good and valuable consideration, receipt of which is hereby acknowledged, the UNDERSIGNED by these presents, sells, assigns, and transfers unto ASSIGNEE, its legal representatives, successors, and assigns, the entire right, title and interest for the United States and all foreign countries, in and to the INVENTION, and in and to the said APPLICATION, and in and to any applications for Letters Patent which may have been or may be filed in any foreign country on said INVENTION, and in and to any and all priority rights generated by the filing of said APPLICATION in the United States or any foreign country, which may be granted covering the INVENTION, including any continuations, continuations-in-part, substitutions, divisions, reissues or renewals thereof, said Letters Patent whether of this country or any foreign country to be held and enjoyed by ASSIGNEE for its interest, for its own use and behoof, and for its legal representatives, successors, and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by UNDERSIGNED had this assignment and sale not been made.

I covenant and agree that I will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE to (a) obtain Letters Patent, both domestic and foreign, on said invention, (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns, to said invention, application and Letters Patent, including making such title of lawful public record, and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this assignment.

I hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent based on said application and all said divisions, continuations,

continuations-in-part, reissues, renewals and extensions to said ASSIGNEE, its successors and assigns.

I authorize and empower the said ASSIGNEE, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full and legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said ASSIGNEE or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

IN WITNESS WHEREOF this assignment has been executed by UNDERSIGNED on the date opposite their name.

DATE May 22, 2001 Takuya Yamamoto Witness: Akira Hara
Takuya YAMAMOTO

DATE May 22, 2001 Takashi Kataoka Witness: Akira Hara
Takashi KATAOKA

DATE May 22, 2001 Naotomi Takahashi Witness: Akira Hara
Naotomi TAKAHASHI