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PATENTS

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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 party(ies):

Akira KOYANAGI

3.24.03

2. Name and address of receiving party(ies):

MITSUI MINING & SMELTING CO., LTD.  
1-11-1, Osaki,  
Shinagawa-ku,  
TOKYO 141-8584  
JAPAN

JC971 U.S. PTO  
10/394002

03/24/03

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: February 26, 2003

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

4. Application number(s) or patent number(s):

10394002

If this document is being filed together with a new application, the execution date of the application is: February 26, 2003

A. Patent Application No.(s)  
Not Yet Assigned

B. Patent No.(s)  
Not Yet Assigned

Additional numbers attached?  Yes  No

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

SUGHRUE MION, PLLC

WASHINGTON OFFICE



23373

PATENT TRADEMARK OFFICE

6. Total number of applications and patents involved:

1

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

- Enclosed.
- Authorized to be charged to Deposit Account No. 19-4880.

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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.

Darryl Mexic

Reg. No. 23,063

March 24, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 2

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

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Box Assignment

Washington, D.C. 20231

04/01/2003 DBYRNE 00000145 10394002

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40.00 OP

PATENT  
REEL: 013896 FRAME: 0587

# Assignment

Whereas, I/We, Akira Koyanagi of c/o Micro Circuit Sector,  
MITSUI MINING & SMELTING CO. LTD 1-1-1, Hikoshima-nishiyama, Shimonoseki, Yamaguchi  
750-0093 JAPAN

hereinafter called assignor(s), have invented certain improvements in FILM CARRIER TAPE FOR  
MOUNTING ELECTRONIC DEVICES THEREON AND METHOD OF MANUFACTURING THE SAME  
and executed an application for Letters Patent of the United States of America therefor on  
26 February 2003; and

Whereas, MITSUI MINING & SMELTING CO. LTD 1-11-1, Osaki, Shinagawa-ku, TOKYO  
141-8584

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and I/we request the Director - U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number \_\_\_\_\_ and Confirmation number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: 26 February 2003 Akira Koyanagi  
s/ Akira KOYANAGI

Date: \_\_\_\_\_  
s/

Date: \_\_\_\_\_  
s/

Date: \_\_\_\_\_  
s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)