

04-13-2004



102719982

Attorney Docket No. 032130

U.S. DEPARTMENT OF COMMERCE

Mail Stop Assignment Recordation Services

Patent and Trademark Office

RECORDATION FORM COVER SHEET

PATENTS ONLY

Commissioner for Patents: Please record the attached original documents or copy thereof.

Submission type: XX NewConveyance type: XX Assignment

Conveying Party(ies):	(Last, First, Middle Initial)	Execution Date
First party	Name: MATSUDA, Akira	November 19, 2003
Second party	Name: SUZUKI, Yuuji	November 19, 2003
Third party	Name: OTSUKA, Hideo	November 20, 2003
Fourth party	Name: KIKUCHI, Yuuki	November 20, 2003
Fifth party	Name: MATSUMOTO, Sadao	November 20, 2003

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

Receiving Party (ies):

First party Name: FURUKAWA CIRCUIT FOIL CO., LTD.
 Address: 8-9, Kandanishiki-cho 1-chome, Chiyoda-ku, Tokyo 101-0054 Japan

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

Domestic Representative Name and Address (Enter for the first Receiving Party only)

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

1250 Connecticut Avenue, N.W., Suite 700

Washington, D.C. 20036

Customer No.: 38834

For Office Use Only

04/12/2004 MGETACHE 00000122 10719020

01 FC:8021

40.00 OP

PATENT
 REEL: 015189 FRAME: 0368

Correspondent Name and Address

Telephone: 202-822-1100

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

1250 Connecticut Avenue, N.W., Suite 700

Washington, D.C. 20036

Pages Enter the total number of pages of the attached conveyance document: 1

(including any attachments, but not counting cover sheets)

Application Number(s) or Patent Number(s) Additional numbers attached? Yes ☐ No ☐

A. Patent Application No.(s)

B. Patent No.(s)

10/719,020 filed November 24, 2003If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: _____

(Do not recite both application and patent numbers.)

Patent Cooperation Treaty (PCT)

PCT _____

Enter PCT application number only if

PCT _____

a U.S. Application Number has not been assigned

PCT _____

Number of Properties Enter the total number of properties involved: 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41). \$40.00

XX Enclosed____ Authorized to be charged to Deposit Account No.: 50-2866

Statement and signature

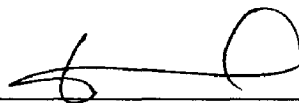
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ken-Ichi Hattori

Name of Person Signing

April 8, 2004

Date



Signature

32,861

Registration No.

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

(Insert ASSIGNEE's
Name(s) Address(es))

FURUKAWA CIRCUIT FOIL CO., LTD

8-9, Kandanishiki-cho 1-chome, Chiyoda-ku, Tokyo 101-0054 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

PLATING BATH FOR FORMING THIN FILM RESISTANCE LAYER, METHOD OF FORMATION OF RESISTANCE LAYER, CONDUCTIVE BASE WITH RESISTANCE LAYER, AND CIRCUIT BOARD MATERIAL WITH RESISTANCE LAYER

(*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

* filed on _____ Serial No. _____

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u>Akira Matsuda</u> (Signature)	<u>Akira MATSUDA</u> (Type Name)	<u>2003/11/19</u> (Date)
<u>Yuuji Suzuki</u> (Signature)	<u>Yuuji SUZUKI</u> (Type Name)	<u>2003/11/19</u> (Date)
<u>Hideo Otsuka</u> (Signature)	<u>Hideo OTSUKA</u> (Type Name)	<u>2003/11/20</u> (Date)
<u>Yuuki Kikuchi</u> (Signature)	<u>Yuuki KIKUCHI</u> (Type Name)	<u>2003/11/20</u> (Date)
<u>Sadao Matsumoto</u> (Signature)	<u>Sadao MATSUMOTO</u> (Type Name)	<u>2003/11/20</u> (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)

NO LEGALIZATION REQUIRED