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Attorney Docket Number
7565-071-999

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS

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Please record the attached original documents or copy thereof.

1566 U.S. PTO
09/444642

1. Name of conveying party(ies):

Shigetsugu Muramatsu, Yoshihiko Ogawa, Norio Kojima

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

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

Name: Shinko Electric Industries Co., Ltd.Address: 711, Aza Shariden, Oaza Kurita, Nagano 380-0921

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____Country (if other than USA): JAPANExecution Date: November 15, 1999

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: November 15, 1999

A. Patent Application No.(s) _____

B. Patent No.(s) 09/444642Additional numbers attached? ☐ Yes ☒ No

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

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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.

Allan A. Fanucci

30,256

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Signature

November 22, 1999

Date

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PATENT
REEL: 010403 FRAME: 0014

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))

SHINKO ELECTRIC INDUSTRIES CO., LTD.

711, Aza Shariden, Oaza Kurita, Nagano-shi, Nagano 380-0921, 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)

METAL FOIL HAVING BUMPS, CIRCUIT SUBSTRATE HAVING THE METAL FOIL, AND
SEMICONDUCTOR DEVICE HAVING THE CIRCUIT SUBSTRATE

relating to International Patent Application PCI/JP _____/_____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date
of execution
of application,
if not
concurrent)

(a) executed on _____;
(b) filed on _____,
Serial No. _____/_____;

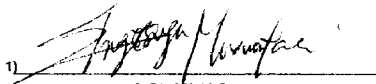
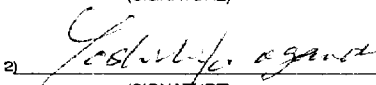
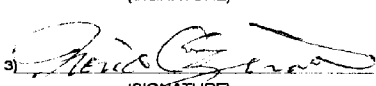
(_____) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

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

(Signatures)

1)  (SIGNATURE)	Shigetsugu Muramatsu (TYPE NAME)	November 15, 1999 (DATE)
2)  (SIGNATURE)	Yoshihiko Ogawa (TYPE NAME)	November 15, 1999 (DATE)
3)  (SIGNATURE)	Norio Kojima (TYPE NAME)	November 15, 1999 (DATE)
4) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
5) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
6) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
7) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
8) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)