



11-14-2001

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PATENTS ONLYU.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeFORM PTO-1596
1-31-92

Docket No.: 43896-533

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Parties:

Toshiaki TAKENAKA, Toshihiro NISHII, Shigeru
YAMANE, Shinji NAKAMURA, Hideaki KOMODA, and
Kunio KISHIMOTOAdditional names of conveying parties attached? ☐ Yes

2. Name and address of receiving party:

Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Address: 1006, Oaza Kadoma

Kadoma-Shi

Osaka 571-8501, JAPAN

Additional name & address attached? ☐ Yes

3. Nature of Conveyance:

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

Execution Date: October 18, 2001

4. Application number or patent number:

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

A. Patent Application No.

09/928,966; Filed August 14, 2001

B. Patent No.

Additional numbers attached? ☐ Yes5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: MCDERMOTT, WILL & EMERY

Internal Address:

Street Address: 600 13th Street, N.W.

City: Washington State: DC Zip: 20005

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

8. Deposit account number:

500417

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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.*

Michael E. Fogarty, No. 36,139

November 8, 2001

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

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PATENT
REEL: 012300 FRAME: 0281

Docket No.: 43890-532

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) <u>Toshiaki TAKENAKA</u>	(4) <u>Shinji NAKAMURA</u>
(2) <u>Toshihiro NISHII</u>	(5) <u>Hideaki KOMODA</u>
(3) <u>Shigeru YAMANE</u>	(6) <u>Kunio KISHIMOTO</u>

who have made a certain new and useful invention, hereby sell, assign and transfer unto

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

1006, Oaza Kadoma

Kadoma-Shi

Osaka 571-8501 JAPAN

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

CIRCUIT BOARD AND METHOD OF MANUFACTURING SAME

(a) for which an application for United States Letters Patent was filed on August 14, 2001, and identified by United States Serial No. 09/928,966 ; or

(b) for which an application for United States Letters Patent was executed on ,

and the undersigned hereby authorize and request the United States Commissioner for Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS	DATE SIGNED
1) <u>Toshiaki Takenaka</u> Name: Toshiaki TAKENAKA	<u>October 18, 2001</u>
2) <u>Toshihiro Nishii</u> Name: Toshihiro NISHII	<u>October 18, 2001</u>
3) <u>Shigeru Yamane</u> Name: Shigeru YAMANE	<u>October 18, 2001</u>
4) <u>Shinji Nakamura</u> Name: Shinji NAKAMURA	<u>October 18, 2001</u>
5) <u>Hideaki Komoda</u> Name: Hideaki KOMODA	<u>October 18, 2001</u>
6) <u>Kunio Kishimoto</u> Name: Kunio KISHIMOTO	<u>October 18, 2001</u>