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HEET

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 04173.0396  
09/355438



Rec'd PCT/PTO 28 JUL 1999

101176971

ATTN. BOX ASSIGNMENTS

To the Honorable Commissioner of F  
Please record the attached original of

1. Name of conveying party(ies):

- (1) Akira OGAWA
- (2) Yoshitaka FUKUOKA

ued 7.28.99

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name

Other

Execution Date: (1) July 12, 1999 and (2) July 15, 1999

Name and address of receiving party(ies):

Name: KABUSHIKI KAISHA TOSHIBA

Internal Address:

Street Address: 72, Horikawa-cho, Saiwai-ku,  
Kawasaki-shi, Kanagawa-ken, Japan

City:

State:

Zip Code:

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: July 12, 1999 and July 15, 1999

A. Patent Application Number(s):

B. Patent Number(s):

09/355438

Additional numbers attached?  Yes  No

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

Name: Mr. Ernest F. Chapman

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT  
& DUNNER, L.L.P.

08/04/1999 WCLAYBRO 00000125 09355438

04 FC:581

40.00 OP

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

Enclosed (Please charge deficiency to deposit account)

Authorized to be charged to deposit account

Street Address: 1300 I Street, N.W.

City: Washington

State: DC

Zip: 20005-3315

8. Deposit account number: 06-0916

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.

Ernest F. Chapman

July 28, 1999

Signature

Date

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

A S S I G N M E N T

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:  
METHOD AND APPARATUS FOR MANUFACTURING MULTI-LAYERED WIRING BOARD AND  
MULTI-LAYERED WIRING BOARD

for which I/WE executed an application for United States Letters Patent concurrently herewith or on \_\_\_\_\_ or filed an application for United States Letters Patent on \_\_\_\_\_, 19\_\_\_\_ (Serial No. \_\_\_\_\_); and

WHEREAS, KABUSHIKI KAISHA TOSHIBA,  
a corporation of Japan, whose post office address is 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

- |   |                        |
|---|------------------------|
| 1. Full Name of Sole or First Assignor : Assignor's Signature | : Date                 |
| Akira OGAWA : <u>Akira Ogawa</u>                              | : <u>Jan 12, 1999</u>  |
| Address : _____   | : Citizenship          |
| 7-39-3, Shin-machi, Ome-shi, Tokyo 198-0024, Japan            | : Japan                |
| 2. Full Name of Second Assignor : Assignor's Signature        | : Date                 |
| Yoshitaka FUKUOKA : <u>Yoshitaka Fukuoka</u>                  | : <u>July 15, 1999</u> |
| Address : _____   | : Citizenship          |
| 293-64-26-3, Otsuka, Hachioji-shi, Tokyo 192-0352, Japan      | : Japan                |
| 3. Full Name of Third Assignor : Assignor's Signature         | : Date                 |
| : _____   | : _____                |
| Address : _____   | : Citizenship          |
| : _____   | : _____                |

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. · WASHINGTON, D.C.