FORM PTO-1594 1-31-92

03-23-2001 

U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 04329.2527 Customer Number: 22,852

101646106 To the Honorable Commissioner of Patents and Trausi Please record the attached original documents or copy thereof. ATTN. BOX ASSIGNMENTS 1. Name of conveying party: 2. Name and address of receiving party: Ryoji NINOMIYA KABUSHIKI KAISHA TOSHIBA Name: Additional name of conveying party attached? □ Yes 

No Internal Address: 3. Street Address: Nature of conveyance: 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan City: Zip Code: State: × Assignment Merger Security Change of Name Agreement Other Additional name & Address attached?  $\Box$ **Execution Date:** March 2, 2001 □ Yes 

No Application number or patent number: If this document is being filed together with a new application, the execution date of the 4. application: March 2, 2001 0980302 B. Patent Number: Patent Application Number: 03/14/2001 BSAYASI1 00000017 09803024 40.00 OP D4 FC:581 Additional numbers attached? □ Yes 図 No Name and address of party to whom correspondence 5. 6. Total number of applications and registrations involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40 Mr. Ernest F. Chapman Name: FINNEGAN, HENDERSON, FARABOW, GARRETT Enclosed (Please charge deficiency to deposit account) Internal Address: & DUNNER, L.L.P. Authorized to be charged to deposit account Street Address: 1300 I Street, N.W. 8. Deposit account number: 06-0916 City: Washington DC 20005-3315 State: Zip: 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. March 12, 2001 Richard V. Burgujian Sighature Date Registration No. 31,744 Total number of pages including cover sheet, attachments and documents:

> **PATENT** REEL: 011602 FRAME: 0979

## ASSIGNMENT

In consideration of value received, I, having a mailing address at c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

## PRINTED CIRCUIT BOARD AND ELECTRONIC EQUIPMENT USING THE BOARD

said application having been filed on and assigned Application No. ;
sell and assign to
KABUSHIKI KAISHA TOSHIBA
a corporation of Japan, having a business address at 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent: (check one)

- × executed concurrently herewith:
- executed separately herefrom:

and in and to all applications for patent and patents for said invention. in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents. to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invension in all countries.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Finnegan, Henderson, Farabow, Garrett & Dunner, L. L. P., 1300 I Street, N. W., Washington, D. C., 20005-3315

PATENT REEL: 011602 FRAME: 0980

## ASSIGNMENT

Inventor: (Signature)	Date	Residence
$Q_{i}$ , $Q_{i}$	0 1 -	
Ryoji hinomiya  Ryoji Ninomiya	march 2, 200/	Tachikawa-shi, Japan
Ryoji Ninomiya		

## RECORDING OFFICER:

After recording please return to: Finnegan, Henderson, Farabow, Garrett & Dunner, L. L. P.

1300 I Street, N.W., Washington, D.C. 20005-3315

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**PATENT**