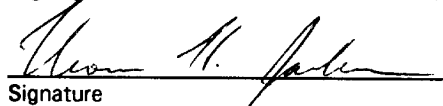


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08-21-1998



Form PTO-1592 (modified)

To the Honorable Commissioner of Patents & Trademarks		100798511	and original documents or copies thereof:
1. Name of Conveying Party or Parties: Takehiko HOJO Motohiro ENKAKU Additional Names of conveying party or parties attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party or parties: Kabushiki Kaisha Toshiba 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi Kanagawa-ken 210 JAPAN Additional Name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other <u>Correction of One Assignor's Name on Cover Sheet</u> Execution Date: <u>May 13, 1998</u>			
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: _____			
A. Patent Application Number(s): 08/937,123 Filed September 24, 1997 Additional Name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		B. Patent Number(s):	
5. Name and address of party to whom correspondence concerning the document should be mailed: BANNER & WITCOFF 1001 G Street, N.W., 11th Floor Washington, D.C. 20001-4597		6. Total Number of Applications and patents involved: One 7. Total fee (37 CFR 3.41) \$ <input type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account* <input checked="" type="checkbox"/> Please charge or credit our deposit account for any additional or refunded fees associated with recording this assignment 8. Deposit Account No.: 19-0733 (in the event additional fees are required) (Duplicate copy of this page attached if paying by deposit account)	
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9. Statement and Signature: <i>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.</i> <u>Thomas H. Jackson, Reg. No. 29,808</u> Name of Person Signing Atty. Docket No.: 449.06183		 Signature <u>August 18, 1998</u> Date Total Number of Pages comprising Cover Sheet: 6	

08/25/98 JMWIKINS 00000194 0893/123 40.00 UP 01 F 081

ASSIGNMENT

(Toshiba-Japan)

In consideration of value received, We, Takehiko Hojo, residing at c/o Toshiba Corporation, Intellectual Property Division, 1-1-1 Shibaura, Minato-ku, Tokyo, Japan and Motohiro Enkaku, residing at c/o Toshiba Corporation, Intellectual Property Division, 1-1-1 Shibaura, Minato-ku, Tokyo, Japan, the inventors of an invention described in an application for United States patent entitled:

AN INPUT/OUT CIRCUIT AND A METHOD FOR CONTROLLING AN INPUT/OUTPUT SIGNAL

said application having been filed on September 24, 1997, and assigned Serial No. 08/937,123;

hereby sell and assign to Kabushiki Kaisha Toshiba, a corporation organized and existing under the laws of Japan, and having a business address at 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa 210 Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", our entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent

- 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 we 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 we agree that on request and without further consideration, but at the expense of said Assignee, we 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 invention in all countries.

We hereby grant Banner & Witcoff, Ltd., 11th Floor, 1001 G Street, N.W., Washington, D.C. 20001-4597 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.

May 13, 1998
Date

Takehiko Hojo
Takehiko Hojo

Witness

May 13 1998
Date

Motohiro Enkaku
Motohiro Enkaku

Witness