OMB No. 0651-0011 (exp. 4/94 To the Honorable Commissio 1. Name of conveying party(ies):	COVER SHEET ONLY U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office ord the attached original documents or copy thereof. Z. Name and address of receiving party(ies):
Hiroshi TAKAHASHI Additional name(s) of conveying party(ies) attached? No	Name: KABUSHIKI KAISHA TOSHIBA Internal Address: Street Address: 72 Harikawa aka Saiwai ku
3. Nature of conveyance: XX Assignment _ Merger _ Security Agreement _ Change of Name _ Other ACG Execution Date: July 19, 1999	Street Address: 72, Horikawa-cho, Saiwai-ku, Kanagawa-ken City: Kawasaki-shi, State: Japan ZIP:
4. Application number(s) or patent number(s): If this document is being filed together with a new applica A. Patent Application No.(s) 09/310,585	tion, the execution date of the application is: B. Patent No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved. 1
Name: Glenn Law Internal Address: FOLEY & LARDNER Street Address: 3000 K Street, N.W., Suite 500 City: Washington, State: D.C. ZIP: 20007-5109	7. Total fee (37 C.F.R. § 3.41) \$40.00 XX Enclosed _ Authorized to be charged to deposit account
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9. Statement and signature. To the best of my knowledge and belief, the foregoing information the original document. Glenn Law Name of Person Signing Signature	August 9, 1999 Date
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U.S. Rights--Sole or Joint

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto KABUSHIKI KAISHA TOSHIBA
72, Horikawa-cho, Saiwai-ku, Kanagawa-ken

name and address of assignee

72, Horikawa-cho, Saiwai-ku, Kanagawa-ken Kawasaki-shi, JAPAN

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

title of invention

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in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held end enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made:

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith:

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, relssuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTORS		
Name: Hiroshi TAKAHASHI	Signature: Birashi Takahashi	Date: Jul. 19, 1999
Name:	Signature:	Date:
Name:	Signature:	Date:
Name:	Signature:	Date:
NAMES AND SIGNATURES OF WITNESSES		
Name:	Signature: Saling Sulv	Dat 71 9189
Name:	Signature: Ahiling Konshare	Date: Jul 14, 199

Note: Prime facial evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

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