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MUD march	23714	HEET S ONLY	2	
TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS:				
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.				
1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR			9/0 5/2	
1. MURAYAMA, Tomohiro 2. KISHIMOTO, Isao 3. KAWAKAMI, Hiroshi 4.	5. 6. 7. 8. 9.			
ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES				
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST: NAME: KABUSHIKI KAISHA TOSHIBA				
ADDRESS: 72, Horikawa-cho, Saiwai-ku,	Kawasaki-shi, Japan		i	
ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?				
 NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith <u>only one document</u> for recordation multiple copies of same Assignment signed by different inventors is <u>one_</u> document) 				
X ASSIGNMENT OF X WHOLE	PART INTEREST	XEC. DATE: May	18, 1998	
4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) May 18, 1998				
4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES X NO				
A. PAT. APP. NO.(S) M# 1ST INVEN series code/serial no if not in ite		D(S) M#	1ST INVENTOR if not in item 1	
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed: 6. NUMBER INVOLVED:				
concerning becament onould be malica.	APPLNS	APPLNS _ + PATS: _ = TOTAL _		
Pillsbury Madison & Sutro LLP		OF FEE ENCLOSED:	(Code 581)	
Intellectual Property Group 1100 NEW YORK AVENUE, N.W. NINTH FLOOR, EAST TOWER WASHINGTON, D.C. 20005-3918				
5.5 ATTY DKT:	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 8312 254378			
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i a francisco de la companya de la compa				
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.				
	10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet) 3			
Attorney: Dale S. Lazar				
Reg. No. 28,872 Date: May 21, 1998				
Atty/Sec: DSL:mhn TEL: (202) 861- 3527 Fax: (202) 822-0944				
FILE WITH PTO RETURN RECEIPT(PAT-103A)				

ASSIGNMENT

In consideration of value received, I, having a post office 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:

OPTICAL CHARACTERISTICS SWITCHING MECHANISM, OPTICAL HEAD AND OPTICAL DISK APPARATUS

said application having been filed on and assigned Serial 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)

 \times 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.

The Cushman Darby & Cushman Intellectual Property Group of Pillsbury Madison & Sutro, LLP, Ninth Floor, East Tower, 1100 New York Avenue, N.W., Washington, D.C. 20005-3918

ASSIGNMENT

Inventor: (Signature)	Date	Residence
Tomohire Murayana	MAY 18.1998	Yokohama-shi, Japan
Tomohiro Murayama 🦁		
(Loro Kighimito	MAY 18.1998	Yokohama-shi, Japan
Isao Kishimoto		

Hirochi Kaurapami MAY 18.1998

Chigasaki-shi, Kanagawa-ken, Japan

Hiroshi Kawakami

RECORDING OFFICER: After recording please return to: CUSHMAN DARBY & CUSHMAN INTELLECTUAL PROPERTY GROUP OF PILLSBURY MADISON & SUTRO, LLP NINTH FLOOR, EAST TOWER, 1100 NEW YORK AVENUE, N.W. WASHINGTON, D.C. 20005-3918