Docket No.: R2184.0098/P098

U.S. Department of Commerce

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Form PTO-1619A 03-15-2001

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OMB 0651-0027



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Name (line 1) Ricoh Company, Ltd.  Name (line 2)  Address (line 1) 3-6, Nakamagome 1-chome	If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached.  (Designation must be a separate document from			
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Name Mark J. Thronson (33,08				
Address (line 1) DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP				
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Docket No.: R2184.0098/P098

Form PTO-1619B Expires 06/30/99 OMB 0651-0027		Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT	
Correspondent N	lame and Addres	SS Area Code and Telephone Number	(202) 775-4742	
Name	Mark J. Thro	nson		
Address (line 1)	Address (line 1) DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP			
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Patent A	Application Numb	ber(s) Paten	t Number(s)	
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If this document is being f signed by the first named	iled together with a <u>new</u> f executing inventor.	Patent Application, enter the date the patent application	was Month Day Year 02/23/2001	
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Number of Prope	erties	Enter the total number of properties involved	d. #[1	
Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00  Method of Payment: Enclosed X Deposit Account				
Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)  Deposit Account Number: # 04-1073				
		Authorization to charge additional fees	s: Yes x No	
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. Charges to deposit account are authorized, as indicated herein.				
	Thronson	My Ku #33,082	March 1, 2001  Date	
iname of Pe	rson Signing	Signature	Date	

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## ASSIGNMENT BY INVENTORS

VIIKT NIAKAMIIDA

ınd	(hereinafter referred to a
'Assignors"), respectively residing at:	Kanagawa, Japan

WHEREAS, Assignors have invented certain new and useful improvements in OPTICAL RECORDING METHOD AND APPARATUS. AND OPTICAL STORAGE MEDIUM set forth in an application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, Ricoh Company, Ltd., a corporation organized under and pursuant to the laws of Japan, having its principal place of business at 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan (hereinafter referred to as "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for

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the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions

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and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals 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 United States Patent and Trademark Office for recordation of this document:

## Dickstein Shapiro Morin & Oshinsky LLP

Gary M. Hoffman, 26,411; Thomas J. D'Amico, 28371; Donald A. Gregory, 28,954; James W. Brady, Jr., 32,115; Jon D. Grossman, 32,699; Mark J. Thronson, 33,082; Laurence D. Fisher, 37, 131; John R. Fuisz, 37327; Juliana Haydoutova, P43,313; James M. Heintz, P41,828; Herbert V. Kerner, P42,721; Gianni Minutoli, 41,198; Eric Oliver, 35,307; William E. Powell, III, 39,803; James M. Silbermann, 40,413; Richard Veltman, 36,957 and Darius Gambino, 41,472.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: Feb. 23 2001	Assignor: Jula Makamura YUKI NAKAMURA
Date:	Assignor:
Date:	Assignor:
Date:	Assignor:
Witnesses:	
Date: February 23, 2001	Witness: tarlet &
Date: February 23, 2001	Witness: Himpoli Monta

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RECORDED: 03/01/2001