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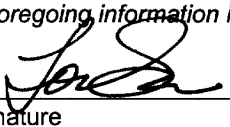
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U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Commissioner of Patent

100731145

Please record the attached original documents or copy thereof

1. Name of conveying party(ies): Tatsuaki Sakurai Ryuji Kudo and Masaaki Sofue Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: <u>RICOH Company, Ltd.</u> Internal Address: _____ Street Address: <u>3-6, 1-Chome, Nakamagome</u> <u>Ohta-ku, Tokyo, Japan</u> City: <u>Tokyo</u> Country: <u>Japan</u> Zip Code: _____ Additional name(s) & 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 type="checkbox"/> Other _____ Execution Date: <u>1) May 6, 1998, 2) April 15, 1998 and</u> <u>3) May 15, 1998</u>	4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date(s) of the application is (are): _____ A. Patent Application No.(s): <u>08/937,587</u> B. Patent No.(s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP</u> Internal Address: <u>Atty. Dkt.: R2180.062/P062</u> <u>Attn: Thomas J. D'Amico</u> Street Address: <u>2101 L Street N.W.</u> City: <u>Washington</u> State: <u>D C</u> Zip: <u>20037</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>04-1073</u>
06/04/1998 JSHR00ZZ 00000156 00937587 01 FC:581 40.00 00 DO NOT USE THIS SPACE	
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. <u>Thomas J. D'Amico</u> Name of Person Signing Reg. No. <u>28,371</u>  Signature <u>May 28, 1998</u> Date	
Total number of pages including cover sheet, attachments, and document: <u>5</u>	

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this day of , 1998,
by Tatsuaki Sakurai; Ryuji Kudo and Masaaki Sofue; (hereinafter referred to as
Assignors), respectively residing at:

Shikimidai 84-178-202,, Asahi-ku, Yokohama-shi, Kanagawa-ken, JAPAN;
Park Homes 105, Nishiya-cho 1259-1, Hodogaya-ku, Yokohama-shi,
Kanagawa-ken, JAPAN;
Fujinodai-Danchi 1-21-403, Honmachida 3486, Machida-shi, Tokyo-to,
JAPAN;

WHEREAS, Assignors have invented certain new and useful improvements in
METHOD AND APPARATUS OF LASER DRIVE CONTROLLER FOR OPTICAL
STORAGE APPARATUS CAPABLE OF CHANGING A LASER BEAM POWER
LEVEL TO FIT TO VARIOUS TYPES OF COMPACT DISKS, set forth in an
application for Letters Patent of the United States, already filed on September 29, 1997 as
U.S. application Serial No. 08/937,587; 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, 1-Chome,
Nakamagome; Ohta-ku, Tokyo, 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 and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for 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 Assignors, 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 in any country, 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 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 and Oshinsky L.L.P.

Gary M. Hoffman, 26,411; Thomas J. D'Amico, 28,371; 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, 37,327; 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: May 6, 1998

Assignor: Tatsuaki Sakurai
Tatsuaki Sakurai

Date: _____

Witness: _____

Date: _____

Witness: _____

Date: April 15, 1998

Assignor: Ryuji Kudo
Ryuji Kudo

Date: _____

Witness: _____

Date: _____

Witness: _____

Date: May 15, 1998

Assignor: Masaaki Sofue
Masaaki Sofue

Date: _____

Witness: _____

Date: _____

Witness: _____

This assignment preferably should be signed before: (a) a Notary Public if within the United States or (b) a United States Counsel if outside the United States. If the assignment is not notarized or signed before a United States Counsel, it must be signed and dated by two witnesses at the indicated places.