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PATENTS UNIT

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Satoru Sugawara

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: May 9, 2002

2. Name and address of receiving party(ies)

Name: Ricoh Company, Ltd.

Internal Address: _____

Street Address: _____

3-6, Nakamagome 1-chome
Ohta-ku, Tokyo 143-8555
Japan

City: _____

State: _____ Zip: _____

Additional name(s) & address(es) attached: Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the new application is: _____

A. Patent Application No.(s):
10/101,748

B. Patent No.(s): _____

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mark J. Thronson
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Internal Address: Atty. Dkt.: R2184.0146/P146

Street Address:
2101 L Street NW

City: Washington State: DC Zip: 20037-1526

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

- Enclosed
- Authorized to be charged to deposit account
- Authorized to be charged to credit card
(Form 2038 enclosed)

8. Deposit account number:
04-1073
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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.

Mark J. Thronson (33,082)
Name of Person Signing

Signature

June 21, 2002
Date

Total number of pages including cover sheet, attachments, and documents: 4

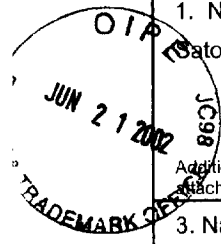
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PATENT
REEL: 013027 FRAME: 0076



6-21-02

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by SATORU SUGAWARA,

and _____ (hereinafter referred to as
"Assignors"), respectively residing at: Miyagi, Japan

and _____

WHEREAS, Assignors have invented certain new and useful improvements in
OPTICAL MODULE AND OPTICAL RECORDING AND/OR REPRODUCING APPARATUS,
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

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

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: May 9, 2002

Assignor: Satoru Sugawara
SATORU SUGAWARA

Date: _____

Assignor: _____

Date: _____

Assignor: _____

Date: _____

Assignor: _____

Witnesses:

Date: May 9, 2002

Witness: [Signature]

Date: May 9, 2002

Witness: [Signature]