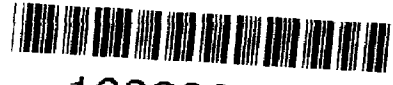


08-24-2006

DEPARTMENT OF COMMERCE
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents at the new address(es) below.

1. Name of conveying party(ies):
Masaki Kato (June 29, 2006), Katsuyuki Yamada (June 29, 2006), Kazunori Ito (July 3, 2006), Michiaki Shinotsuka (July 3, 2006),
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Ricoh Company, Ltd.
Internal Address: _____
Street Address: _____

3. Nature of conveyance/Execution Date(s):
Execution Date(s): in parentheses after inventor name
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

3-6, Nakamagome 1-chome, Ohta-ku
City: Tokyo
State: _____
Country: Japan Zip: 143-8555
Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):
A. Patent Application No.(s)
10/582,481
Additional numbers attached? Yes No

This document is being filed together with a new application.
B. Patent No.(s)
 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Mark J. Thronson
DICKSTEIN SHAPIRO LLP
Internal Address: Atty. Dkt.: R2184.0506/P506
Street Address: 1825 Eye Street, NW
City: Washington
State: DC Zip: 20006-5403
Phone Number: (202) 420-4742
Fax Number: (202) 420-2201
Email Address: ThronsonM@dicksteinshapiro.com

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
a. Credit Card Last 4 Numbers 1002
Expiration Date 01/07
b. Deposit Account Number 04-1073
Authorized User Name Mark J. Thronson

9. Signature:
Mark J. Thronson Signature August 21, 2006 Date
Mark J. Thronson - 33,082 Name of Person Signing
Total number of pages including cover sheet, attachments, and documents: 6

08/22/2006 HALI11 00000113 10582481
01 FC:8021

40.00 0P

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Eiko Hibino (July 3, 2006), Masaru Shinkai (July 5, 2006), and Hiroyoshi Sekiguchi (July 3, 2006)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers
4A. Continued:Additional Patent Numbers
4B. Continued:

Additional numbers attached?

Yes

No

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, by MASAKI KATO , KATSUYUKI YAMADA ,
KAZUNORI ITO, MICHIAKI SHINOTSUKA , EIKO HIBINO , MASARU
SHINKAI and HIROYOSHI SEKIGUCHI (hereinafter referred to as "Assignors"),
residing at Kanagawa, Japan , Kanagawa, Japan , Kanagawa, Japan ,
Kanagawa, Japan , Kanagawa, Japan , Kanagawa, Japan and
Kanagawa, Japan respectively;

WHEREAS, Assignors have invented certain new and useful improvements in
OPTICAL DISK, RECORDING METHOD, RECORDING MEDIUM, AND OPTICAL
DISK UNIT, set forth in a patent application for Letters Patent of the United States, executed
concurrently herewith; and

WHEREAS, Ricoh Company, Ltd. (hereinafter referred to as "Assignee"), having
offices at 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan, 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 Patent 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 Patents 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: Edward A. Meilman, Reg. No. 24,735, Gary M. Hoffman, Reg. No. 26,411, Steven I. Weisburd, Reg. No. 27,409, Thomas J. D'Amico, Reg. No. 28,371, Donald A. Gregory, Reg. No. 28,954, Stephen A. Soffen, Reg. No. 31,063, James W. Brady, Jr., Reg. No. 32,115, Jon D. Grossman, Reg. No. 32,699, Mark J. Thronson, Reg. No. 33,082, Michael J. Scheer, Reg. No. 34,425, and Eric Oliver, Reg. No. 35,307, of Dickstein Shapiro Morin & Oshinsky LLP.

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

Assignors:

Masaki Kato

MASAKI KATO

Date: June 29, 2006

Katsuyuki Yamada

KATSUYUKI YAMADA

Date: June 29, 2006

Kazunori Ito

KAZUNORI ITO

Date: ~~June~~ ^{K.I.} July 3, 2006

Michiaki Shinotsuka

MICHIAKI SHINOTSUKA

Date: July 3, 2006

Eiko Hibino

EIKO HIBINO

Date: July 3, 2006

Masaru Shinkai

MASARU SHINKAI

Date: July 5, 2006

Hiroyoshi Sekiguchi

HIROYOSHI SEKIGUCHI

Date: July 3, 2006

Witnesses:

[Signature]

Date: July 5, 2006

[Signature]

Date: July 5, 2006