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PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
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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):

Naoto Shiraishi

7-25-02

Additional name(s) of conveying party(ies) attached?

☐ Yes

☒ No

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: June 27, 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):

10/127,553

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.: R2184.0152/P152

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

(Attach duplicate copy of this page if paying by deposit account)

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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  
Name of Person Signing

Signature

July 25, 2002  
Date

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

## ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, by NAOTO SHIRAISHI, \_\_\_\_\_,  
\_\_\_\_\_, and \_\_\_\_\_ (hereinafter referred to as  
"Assignors"), residing at Tokyo, Japan,  
\_\_\_\_\_, \_\_\_\_\_, and  
\_\_\_\_\_, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in  
IMAGE COMPRESSION APPARATUS, IMAGE EXPANSION APPARATUS, IMAGE FORMING APPARATUS, IMAGE  
COMPRESSION METHOD, IMAGE EXPANSION METHOD AND \_\_\_\_\_, set forth in a patent  
STORAGE MEDIUM  
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:

Naoto Shiraishi  
NAOTO SHIRAISHI

Date: June 27, 2002

\_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

Witnesses:

Arthur J. Sch

Date: June 27, 2002

Kei Nakano

Date: June 27, 2002