

02-27-2006

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103185543

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

**1. Name of conveying party(ies):**

Kazunori Takatsu (02/10/2006), Takuya Imai  
(02/10/2006), Yukiko Sahashi (02/10/2006), and  
Mototsugu Emori (02/10/2006)

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

**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

**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: \_\_\_\_\_

Country: \_\_\_\_\_ Zip: \_\_\_\_\_

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

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

A. Patent Application No.(s)

This application

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

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

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**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 \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

February 21, 2006

Date

Mark J. Thronson - 33,082

Name of Person Signing

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

4

12991 U.S. PTO  
11/358428

022206

02/24/2006 DTESSEM1 00000014 11358428

07 FC:8021

40.00 OP

DSMDB.2046372.1

**PATENT**  
**REEL: 017579 FRAME: 0336**

## ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, by Kazunori TAKATSU,

Takuya IMAI,

Yukiko SAHASHI,

and Mototsugu EMORI

("Assignors"), residing at c/o Ricoh Co., Ltd., 3-6, Nakamagome  
1-chome, Ohta-ku, TOKYO 143-8555 JAPAN

, and

, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in

NOTIFICATION PROCESSOR THAT NOTIFIES INFORMATION AND POSITION INFORMATION MANAGER,

set forth in an application for Letters Patent of the United States, executed concurrently  
herewith; and

WHEREAS, Ricoh Company, Ltd. ("Assignee"), a Japanese company having a

place of business 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 owner 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 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: 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, and Mark J. Thronson, 33,082, all of Dickstein Shapiro Morin & Oshinsky LLP, Washington, D.C.

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

Date: Feb. 10, 2006 Assignor: Kazunori Takatsu  
 Kazunori TAKATSU

Date: Feb. 10, 2006 Assignor: Takuya Imai  
 Takuya IMAI

Date: Feb. 10, 2006 Assignor: Yukiko Sahashi  
 Yukiko SAHASHI

Date: Feb. 10, 2006 Assignor: Mototsugu Emori  
 Mototsugu EMORI

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

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

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

Date: Feb. 10, 2006 Witness: Hiroaki Nagatsuka  
 Hiroaki NAGATSUKA H.N.

Date: Feb. 10, 2006 Witness: Hiroaki NAGATSUKA Masahito Obata  
 Masahito Obata