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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

102027664

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

1. Name of conveying party(ies):

Masato Aoyagi and Hiroshi Takahashi

03/13/02

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

City:

State: Zip:

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

11002 U.S. PTO  
10/095473

03/13/02

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: see Box 1, conveying parties

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: March 12, 2002

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached?  Yes  No

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

Name: Thomas J. D'Amico  
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Internal Address: Atty. Dkt.: R2180.0118/P118

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

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.

Thomas J. D'Amico  
Name of Person Signing

Signature

March 13, 2002  
Date

Total number of pages including cover sheet, attachments, and documents: 5

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MAR 2002年 3月13日 17時02分  
2002年 3月13日 17時02分

株式会社リコー新横浜第2知財部  
RICOH 印刷部 中野 V.

NO. 6942 P. 5  
202 872 8833 TO 8747#1 No. 030301 P. 2/286

**ASSIGNMENT BY INVENTORS**

**THIS ASSIGNMENT**, made this 12 day of March, 2002  
by Masato Aoyagi and Hiroshi Takahashi (hereinafter referred to as Assignors), residing at  
3-6, Nakamagome 1-chome., Ohta-ku., Tokyo 143-0027, JAPAN and 3-6,  
Nakamagome 1-chome., Ohta-ku., Tokyo 143-0027, JAPAN, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in  
**IMAGE FORMING APPARATUS AND METHOD FOR SELECTING AN OPTIMAL  
IMAGE SPACE FREQUENCY FOR AN OUTPUT IMAGE**, set forth in a Patent  
application for Letters Patent of the United States, filed herewith; and

**WHEREAS**, Ricoh Company, Ltd., a 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 App ication  
for Letters Patent of the United States, and in and to any Letters Patent of the United  
States to be obtained therefore 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 therefore 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

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 application 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.

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 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	John C. Luce	34,378	Sтивен I. Weisburd	27,409
Thomas J. D'Amico	28,371	Peter McGee	35,947	Milecka C. Williams-Bibbs	48,037
Donald A. Gregory	28,954	William E. Powell, III	39,802	Jeremy A. Cubert	40,399
James W. Brady, Jr.	32,115	Patrick T. Skacel	47,948	Gianni Minutoli	41,198
Jon D. Grossman	32,699	Stephen A. Soffen	31,063	Michael Bergman	42,318
Mark J. Thronson	33,082	Christopher M. Tanner	41,518	Salvatore P. Tamburo	45,153
Eric Oliver	35,307	Ellen S. Tao	43,383	Peter Veytaman	45,920
Laurence B. Fisher	37,131	Gary L. Veron	39,057	Christopher S. Chow	46,493
Ryan H. Flax	48,141				

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

Masato Aoyagi  
Masato Aoyagi

March 12, 2002  
Date

Hiroshi Takahashi  
Hiroshi Takahashi

March 12, 2002  
Date

Hiroemi Okubo  
Witness

March 12, 2002  
Date

Kaoru Imai  
Witness

March 13, 2002  
Date