FORM PTO-1595 1-31-92

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

100914494 DOCKET NO. 0557-4477-2 To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Name and address of receiving party(ies): DEC 0 7 1998 Ryosuke TAKEUCHI Name: RICOH COMPANY, LTD. Additional name(s) of conveying party(ies) at ached? Address: 3-6, Nakamagome 1-chome □ Yes ⋈ No Ohta-ku, Tokyo 143-8555, JAPAN 3. Nature of Conveyance: Additional name(s) & address(es) attached? □ Merger ■ Assignment □ Yes 🛮 No □ Change of Name □ Security Agreement □ Other_ Execution Date: October 20, 1998 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: __ A. Patent Application No.(s) B. Patent No.(s) 09/159,750 Additional numbers attached? □ Yes 🖾 No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: OBLON, SPIVAK, McCLELLAND, 7. Total fee (37 CFR 3.41):....\$ 40.00 MAIER & NEUSTADT, P.C. Attorneys at Law Enclosed Fourth Floor ☐ Authorized to be charged to deposit account 1755 Jefferson Davis Highway Arlington, Virginia 22202 8. Deposit account number: 15-0030 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. is true and correct and any attached copy is a true copy To the best of my knowledge and belief, the foregoipe Info of the original document. Marvin J. Spivak
Name of Person Signing Registration/stember 27,295 Registration No. 24,913 Total number of pages including cover sheet: 3 OMB No. 0651-0011 (exp. 4/94) Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks

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> PATENT REEL: 9619 FRAME: 0496

	WHEREAS, I (WE) Ryosuke TAKEUCHI of						
INSERT NAMES	c/o Ricoh Co., Ltd., 3-6, Nakamagome 1-chome, Ohta-ku						
AND RESIDENCE ADDRESSES OF THE INVENTORS:	TOKYO 143-8555 JAPAN						
	, respectively						
INSERT TITLE OF INVENTION:	have invented certain new and useful improvements in: PRINTING APPARATUS						
	AND IMAGE PROCESSING METHOD FOR THE PRINTING APPARATUS						
INSERT DATE IN- VENTORS SIGNED DECLARATION:	for which an application for Letters Patent was executed on Oct. 20, 1998						
	(Application No						
INSERT NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNEE:	WHEREAS, RICOH COMPANY, LTD.						
	(hereinafter referred to as "ASSIGNEE") 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 invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and it any and all foreign countries;						

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

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PATENT REEL: 9619 FRAME: 0497

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I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date:_	Oct.	20,	1998	Ryosuke Takeuchi (Signature of Inventor) Ryosuke TAKEUCHI			
				(Signature of Inventor)	Ryosuke	TAKEUCHI	
Date:_				(Signature of Inventor)			
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Date:_				(Signature of Inventor)			

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

ATTORNEYS AT LAW FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VIRGINIA 22202

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RECORDED: 12/07/1998

PATENT REEL: 9619 FRAME: 0498