Docket No.: FORM PTO-1595

0557-4474-0

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

100903621

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies 2. Name and address of receiving party(ies): Hiroshi YAMASHITA Name: RICOH COMPANY, LTD. Address: 3-6, Nakamagome 1-chome Ohta-ku, Tokyo 143-8555 Additional name(s) of conveying part iched? □Yes ■No **JAPAN** 3. Nature of Conveyance: ■ Assignment □ Merger □ Security Agreement □ Change of Name □ Other **Execution Date:** October 12, 1998 Additional name(s) and 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 application is: A. Patent Application No.(s) B. Patent No.(s) 09/168,433 Additional number attached? □Yes ■No 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 concerning document should be mailed: OBLON, SPIVAK, McCLELLAND, MAIER & 7. Total fee (37 C.F.R. §3.41): \$40.00 NEUSTADT, P.C. ■ Enclosed Attorneys at Law □ Authorized to be charged to Deposit Account Fourth Floor 8. Deposit Account No.: 15-0030 1755 Jefferson Davis Hwy. (Attach duplicate copy of this page if paying by Deposit Account) Arlington, VA 22202 DO NOT USE THIS SPACE 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. Frederick D. Vastine, Ph.D. Name of Person Signing Registration Number: 27,013 Total number of pages including this cover sheet: Do not detach this portion 8 Mail documents to be recorded with required cover sheet information to: **Commissioner of Patents and Trademarks Box Assignments** Washington, D.C. 20231

REEL: 9584 FRAME: 0814

Assignment Of Application

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	WHEREAS, I (WE) Hiroshi YAMASHITA
SERT NAMES OD RESIDENCE ODRESSES OF IE INVENTORS:	at the following address: 3287-27, Ocoka, Numazu-shi,
	Shizuoka-ken, JAPAN
	, respectively,
REAT TITLE INVENTION:	have invented certain new and useful improvements in:
	AND MANUFACTURING METHOD THEREOF
ert date in ntors signed claration:	for which an application for Letters Patent was executed on October 12, 1998
	(Application No. 09/168, 433 filed October 7, 1998), and
ERT NAME D ADDRESS OF MPANY OR	WHEREAS. RICOH COMPANY, LTD.
HER ASSIGNGE:	(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 in 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: 9584 FRAME: 0815 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: Catober 12, 1998	Hiroshi Gamashita (Signacure of Invenior) Hiroshi YAMASHITA
Date:	
Date:	(Signature of Inventor)
Date:	(Signature of Inversor)
Date:	(Signature of Inventor)
Date:	(Signature of Inventor)
Date:	(Signature of Inventor)
Date:	(Signature of Laventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
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PATENT REEL: 9584 FRAME: 0816