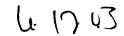


(Rev. 03/01)

06-18-2003

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

To the Honorable Commissioner of Patents and Trademarks	: Please record the attached original documents or copy thereof	
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Osamu Miki (05/02/2003)	Street Address:	
Additional name(s) of conveying party(ies) Additional name(s) of conveying party(ies) Yes X No	3-6, Nakamagome 1-chome Ohta-ku, Tokyo 143-8555	
3. Nature of Conveyance:	Japan	
x Assignment Merger	{	
Security Agreement Change of Name	City:	
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Execution Date: May 2, 2003	Additional name(s) & Yes X No address(es) attached:	
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):	B. Patent No.(s);	
29/177,239	}	
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Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: 1	
Name: Mark J. Thronson DICKSTEIN SHAPIRO MORIN & OSHINSKY LI	LP 7. Total fee (37 CFR 3.41) \$ 40.00	
Internal Address: Atty. Dkt.: R2178.0073/P073	Enclosed	
Street Address: 2101 L Street NW	x Authorized to be charged to deposit account	
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City: State: Zip: Washington DC 20037-1526	04-1073	
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9. Statement and signature.	L THIO STACE	
To the best of my knowledge and belief, the foregoing in	information is true and correct and any attached and	
is a true copy of the original document.	mormation is true and correct and any attached copy	
Mark J. Thronson (33,082)	June 12, 2003	
Name of Person Signing	Signature Date	
Total number of pages including cover sheet, atta	achments, and documents: 4	
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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by,
Masaaki Kabumoto Kanae Amemiya (formerly Nomura), and
Osamu Miki of Japan (hereinafter referred to as "Assignors"), residing
respectively at
285-28 Ohwada, Yachiyo-Shi, Chiba; 16-13 Shimouma 4-chome,
Setagaya-ku, Tokyo; , and
21-9 Sawatari, Kanagawa-ku, Yokohama-shi, Kanagawa ;
WHEREAS, Assignors have invented certain new and useful improvements in PRINTER INK CARTRIDGE
set forth in an application for Letters Patent of the United States executed concurrently

WHEREAS, Ricoh Company, Ltd., a corporation organized under and pursuant to the laws of Japan, having its principal place of business at 3-6, 1-chome, Nakamagome, 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 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

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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

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PATENT REEL: 014170 FRAME: 0247 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.

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

Date:	May 2, 2003	Assignor: Lora Hertsingonna
Date:	May 2, 2003	Assignor: Masaaki Kabumoto
Date:	May 2, 2003	Assignor: Range Ameriya
Date:	May 2, 2003	Assignor: Osamu Miki
Date:		Witness:
Date:		Witness:

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RECORDED: 06/12/2003

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