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To the Director of the U.S. Patent and Trademark Offi	103443077	ew address(es) below.
Name of conveying party(ies):	2. Name and address of receiving	g party(ies)
Hibiki Tatsuno	Name: Ricoh Cor	npany, Ltd.
	Internal Address:	
Additional name(s) of conveying party(ies) attached?	Street Address:	
3. Nature of conveyance/Execution Date(s): Execution Date(s): July 31, 2007 X Assignment Merger Change of Name	3-6, Nakamagome 1-chome Ohta-ku Tokyo 143-8555 JAPAN	
Security Agreement Joint Research Agreement	City:	
Government Interest Assignment	State:	
Executive Order 9424, Confirmatory License	Country:	Zip:
Other	Additional name(s) & address(es) attached?	Yes X No
4. Application or patent number(s): A. Patent Application No.(s) 11/808,700 Additional numbers attached?	This document is being filed together B. Patent No.(s) Yes X No	with a new application.
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications a patents involved:	and 1
Name: Mark J. Thronson DICKSTEIN SHAPIRO LLP Internal Address: Atty. Dkt.: C8391.0009/P009 Street Address: 1825 Eye Street, NW	7. Total fee (37 CFR 1.21(h) & 3.4 X Authorized to be charged Authorized to be charged Enclosed None required (governme	by credit card
City: Washington	8. Payment Information	
State: DC zip: 20006-5403	a. Credit Card Last 4 Numb	
Phone Number: (202) 420-4742	Expiration Di	ate01/11
Fax Number: (202) 420-2201 Email Address: ThronsonM@dicksteinshapiro.com	b. Deposit Account Number Authorized User Name	MINISTER HANDER STATE ST
9. Signature: Signature Mark J. Thronson - 33,082	Total number of pag	
Name of Person Signing	sheet, attachments,	

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ASSIGNMENT

THIS ASSIGNMENT, by <u>Hibiki TATSUNO</u> (hereinafter referred to as "Assignors"), residing at <u>Kawasaki-shi</u>, <u>Kanagawa</u>, <u>Japan</u>, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in ILLUMINATION APPARATUS, LIGHT MODULATION APPARATUS, DISPLAY APPARATUS, PROJECTION-TYPE DISPLAY APPARATUS AND REAR-PROJECTION TELEVISION, set forth in a patent application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, <u>RICOH COMPANY</u>, <u>LTD.</u>, (hereinafter referred to as "Assignee"), having offices at 3-6, <u>Nakamagome 1-chome</u>, <u>Ohta-ku</u>, <u>Tokyo 143-8555 Japan</u>, 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 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

PATENT REEL: 019808 FRAME: 0161 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 Director of the United States Patent and Trademark Office 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: All practitioners associated with Customer Number 24998 (Dickstein Shapiro LLP).

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

July 31, 2007	I biliki Tatsuno
Date	Hibiki TATSUNO
Date	
Date	
July 31, 2007	Magane Lokí
Date	Witness
July 31, 2007	Hisashi Inada
Date	Witness

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RECORDED: 08/31/2007