PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT		
NATURE OF CONVEYANCE:	Corrective Assignment to correct the First and Second Assignee's Name and Second Assignee's Address previously recorded on Reel 019791 Frame 0286. Assignor(s) hereby confirms the entire right, title, and interest.		

CONVEYING PARTY DATA

Name	Execution Date
Tsuyoshi Suzudo	07/05/2007
Takunori Taira	07/13/2007
Yoichi Sato	07/11/2007
Yasunori Furukawa	07/23/2007
Sadao Matsumura	07/23/2007
Makoto Matsukura	07/24/2007
Osamu Nakamura	07/24/2007
Shinya Watanabe	07/26/2007
Akio Miyamoto	07/23/2007

RECEIVING PARTY DATA

Name:	RICOH COMPANY, LTD	
Street Address:	3-6, Nakamagome 1-chome, Ohta-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code: 143-8555		

Name:	National Institutes of Natural Sciences	
Street Address:	21-1, Osawa, 2-chome, Mitaka-shi	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	stal Code: 181-8588	

Name:	Oxide Corporation	
Street Address:	1747-1 Maginohara, Mukawacho, Hokuto-shi	
City:	Yamanashi	
State/Country:	JAPAN	
Postal Code: 408-0302		

501109413 REEL: 024028 FRAME: 0592

PATENT

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11812955

CORRESPONDENCE DATA

Fax Number: (202)420-2201

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER: R2184.0593/P593

NAME OF SUBMITTER: Penny Harris

Total Attachments: 9

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> PATENT REEL: 024028 FRAME: 0593

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W6 2 9 ;	&	HEET		
	T& the Director of the U.S. Pate 10344182	29ned documents or the new address(es) below.		
MOBMAN	1. Name of conveying party(ies):	2. Name and address of receiving party(ies)		
	Tsuyoshi Suzudo (07/05/2007), Takunori Taira (07/13/2007), Yoichi Sato (07/11/2007), Yasunori	Name: Ricoh Company, Ltd.		
8.24.07	Furukawa (07/23/2007), Additional name(s) of conveying party(les) attached? X Yes No	Internal Address: Street Address:		
5	3. Nature of conveyance/Execution Date(s):	3-6, Nakamagome 1-chome Ohta-ku		
×	Execution Date(s): in parentheses after inventor name x Assignment Merger Change of Name	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) X Yes No attached?		
	A. Patent Application No.(s) 11/812,955	B. Patent No.(s)		
	Additional numbers attached?	2 Tatal number of conflictions and		
	5. Name and address to whom correspondence concerning document should be mailed:	patents involved:		
	Name: Mark J. Thronson DICKSTEIN SHAPIRO LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00		
	Internal Address: Atty. Dkt.: R2184.0593/P593	X Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed		
-	Street Address: 1825 Eye Street, NW			
		None required (government interest not affecting title		
	City: Washington	8. Payment Information		
	State: DC Zip: 20006-5403	a. Credit Card Last 4 Numbers 1002		
	Phone Number: (202) 420-4742	Expiration Date 01/11		
	Fax Number: (202) 420-2201	b. Deposit Account Number		
	Email Address: ThronsonM@dicksteinshapiro.com	Authorized User Name		

Signature

Mark J. Thronson - 33,082 Name of Person Signing

DSMDB-2307154v01

PATENT

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

REEL: 024028 FRAME: 0594

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	onveying Party(ies)				
Sadao Matsum Shinya Watana	nura (07/23/2007), M ak abe (07/26/2007), and <i>I</i>	oto Matsukura (0 Akio Miyamoto (0	7/24/2007), Osam 7/23/2007)	nu Nakamura (0`	7/24/2007),
Additional A	ssignees (2. Contin	ued):			
Assignee Name:	National Institutes of	Natural Sciences			
Internal Address:					
Street Address:	21-1, Osawa 2-chome, Mitaka-shi Tokyo 181- 851 1, JAPAN				7:
City:	181- 8511 ; JAPAN <u>§5</u> §8 State:		Country:		Zip:
Assignee Name:	Oxide Corporation				
Internal Address: Street Address:	1747-1 Maginohara Mukawacho Hokuto-shi Yamanashi; 408-0302;	JAPAN			
City:	State:		_ Country:		Zip:
Assignee Name: Internal Address: Street Address:			,	<u> </u>	
City:	State:		Country:		Zip:
Additional A	pplications and/or	Patents (4. Co	ntinued):		
	Application Numbers		Additional Patent Nur 4B. Continued:	mbers	
		Pros.			·
	Additiona	I numbers attached?	Yes	No	·

Docket No.: R2184.0593/P593

DSMDB-2307154v01

REEL: 024028 FRAME: 0595

ASSIGNMENT

THIS ASSIGNMENT, by <u>TSUYOSHI SUZUDO</u>, <u>TAKUNORI TAIRA</u>, <u>YOICHI SATO</u>, <u>YASUNORI FURUKAWA</u>, <u>SADAO MATSUMURA</u>, <u>MAKOTO MATSUKURA</u>, <u>OSAMU NAKAMURA</u>, <u>SHINYA WATANABE</u> and, <u>AKIO MIYAMOTO</u> (hereinafter referred to as "Assignors"), residing at <u>Miyagi</u>, <u>Japan</u>, <u>Aichi</u>, <u>Japan</u>, <u>Aichi</u>, <u>Japan</u>, <u>Yamanashi</u>, <u>Japan</u>, <u>Yamanashi</u>, <u>Japan</u>, <u>Yamanashi</u>, <u>Japan</u>, and <u>Yamanashi</u>, <u>Japan</u>, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in <u>LASER-DIODE</u> <u>PUMPED SOLID-STATE LASER APPARATUS</u>, <u>OPTICAL SCANNING APPARATUS</u>, <u>IMAGE FORMING APPARATUS AND DISPLAY APPARATUS</u>, set forth in a patent application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, Ricoh Company, Ltd., National Institutes of Natural Sciences and Oxide Corporation (hereinafter referred to as "Assignee"), having offices at 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555 Japan, 21-1, Osawa 2-chome, Mitaka-shi, Tokyo 181-8588, Japan and 1747-1, Maginohara, Mukawacho, Hokuto-shi, Yamanashi 408-0302, Japan, 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, fitter 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

PATENT REEL: 024028 FRAME: 0596 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 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 5, 2007

Date

TSUYOSHI SUZUDO

July 13, 2007

Date

Takunori Taira

TAKUNORI TAIRA

Yorlli Sato

Yolchi Sato

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Tay 23, 2007

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July 23 2007 Date	S. Miteumujug SADAO MATSUMURA
July.24. 2007 Date	Makoto Matsukura MAKOTO MATSUKURA
July . 24. 2007 Date	OSDMU NOKOMURA
July . 26. 2007 Date	Shinya Watanahe SHINYA WATANABE
July 23, 200 T	Ako Myamo le AKIO MIYAMOTO
July 26, 2007 Date	Witness
July 26, 2007	

Witness

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RECORDED: 03/04/2010

Date