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To the Honorable Commissioner of Patents and

Documents or copy hereof

<p>1. Name of conveying party(ies): Naoto Jikutani, Shunichi Sato and Takashi Takahashi</p> <p>Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: Ricoh Company, Ltd.</p> <p>Internal Address:</p> <p>Street Address: 3-6, Nakamagome 1-chome</p> <p>City: Ohta-ku, Tokyo</p> <p>State: Zip: 143-8555</p> <p>Country: Japan</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other</p> <p>Execution Date(s): 11/15/99</p>	
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the Execution date(s) of the new application is (are):</p> <p>A. Patent Application No.(s): 09/391,472</p> <p>B. Patent No.(s):</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: DICKSTEIN SHAPIRO MORIN &amp; OSHINSKY LLP</p> <p>Internal Address: Atty. Dkt.: R2184.0052/P052-A</p> <p>Attn: Mark J. Thronson</p> <p>Street Address: 2101 L Street NW</p> <p>City: Washington State: DC Zip: 20037 - 1526</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 C.F.R 3.41) \$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p><input checked="" type="checkbox"/> Credit any overpayment or debit any underpayment</p> <p>8. Deposit account number: 4 - 1073</p>
<p>11/30/1999 MARMJL 00000082 09391472 DO NOT USE THIS SPACE</p>	
<p>9. Statement and signature.</p> <p>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.</p> <p>Mark J. Thronson  November 29, 1999</p> <p>Signature Date</p> <p>Reg. No. 33,082</p>	
<p>Total number of pages including cover sheet, attachments, and document: 4</p>	

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by NAOTO JIKUTANI, SHUNICHI SATO,  
and TAKASHI TAKAHASHI,  
and \_\_\_\_\_ (hereinafter referred to as  
"Assignors"), respectively residing at: Miyagi, Japan, Miyagi, Japan and  
Miyagi, Japan  
\_\_\_\_\_  
and \_\_\_\_\_

WHEREAS, Assignors have invented certain new and useful improvements in  
LASER DIODE HAVING AN ACTIVE LAYER CONTAINING N AND OPERABLE  
IN A 0.6 $\mu$ m WAVELENGTH BAND  
\_\_\_\_\_  
set forth in an application for Letters Patent of the United States, executed concurrently  
herewith; and

WHEREAS, Ricoh Company, Ltd., a corporation organized under and pursuant  
to the laws of Japan, having its principal place of business at 3-6, Nakamagome 1-chome,  
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 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 Assignor, 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 inventions, or said application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions, 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 Patent and Trademarks 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:

**Dickstein Shapiro Morin & Oshinsky LLP**

Gary M. Hoffman, 26,411; Thomas J. D'Amico, 28371; Donald A. Gregory, 28,954; James W. Brady, Jr., 32,115; Jon D. Grossman, 32,699; Mark J. Thronson, 33,082; Laurence D. Fisher, 37, 131; John R. Fuisz, 37327; Juliana Haydoutova, P43,313; James M. Heintz, P41,828; Herbert V. Kerner, P42,721; Gianni Minutoli, 41,198; Eric Oliver, 35,307; William E. Powell, III, 39,803; James M. Silbermann, 40,413; Richard Veltman, 36,957 and Darius Gambino, 41,472.

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

Date: November 15, 1999

Assignor: Naoto Jikutani  
NAOTO JIKUTANI

Date: November 15, 1999

Assignor: Shunichi Sato  
SHUNICHI SATO

Date: November 15, 1999

Assignor: Takashi Takahashi  
TAKASHI TAKAHASHI

Date: \_\_\_\_\_

Assignor: \_\_\_\_\_

Witnesses:

Date: November 15, 1999

Witness: [Signature]

Date: November 15, 1999

Witness: [Signature]