

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yoshiaki Watanabe</td> <td>08/31/2004</td> </tr> <tr> <td>Hironobu Narui</td> <td>08/31/2004</td> </tr> <tr> <td>Yoshinori Yamauchi</td> <td>08/31/2004</td> </tr> <tr> <td>Yuichi Kuromizu</td> <td>09/03/2004</td> </tr> <tr> <td>Yoshiyuki Tanaka</td> <td>09/02/2004</td> </tr> </tbody> </table>		Name	Execution Date	Yoshiaki Watanabe	08/31/2004	Hironobu Narui	08/31/2004	Yoshinori Yamauchi	08/31/2004	Yuichi Kuromizu	09/03/2004	Yoshiyuki Tanaka	09/02/2004
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Yoshiyuki Tanaka	09/02/2004												
RECEIVING PARTY DATA													
Name:	Sony Corporation												
Street Address:	7-35, Kitashinagawa 6-Chome												
City:	Shinagawa-Ku, Tokyo												
State/Country:	JAPAN												
Postal Code:	141-0032												
PROPERTY NUMBERS Total: 1													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11465338</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11465338								
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Application Number:	11465338												
CORRESPONDENCE DATA													
Fax Number:	(312)876-7934												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	1-312-876-8000												
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ATTORNEY DOCKET NUMBER:	09792909-6678												
NAME OF SUBMITTER:	David R. Metzger												

OP \$40.00 11465338

Total Attachments: 5

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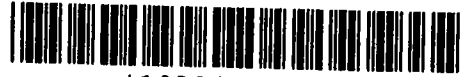


UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 22, 2005

PTAS
SONNENSCHNEIN NATH & ROSENTHAL LLP
P.O. BOX 061080
WACKER DRIVE STATION, SEARS TOWER
CHICAGO, IL 60606-1080



102843821A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 09/17/2004

REEL/FRAME: 015805/0370
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 09792909-5975

ASSIGNOR:
WATANABE, YOSHIKI

DOC DATE: 08/31/2004

ASSIGNOR:
NARUI, HIRONOBU

DOC DATE: 08/31/2004

ASSIGNOR:
YAMAUCHI, YOSHINORI

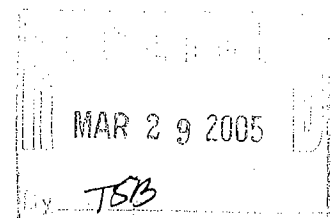
DOC DATE: 08/31/2004

ASSIGNOR:
KUROMIZU, YUICHI

DOC DATE: 09/03/2004

ASSIGNOR:
TANAKA, YOSHIYUKI

DOC DATE: 09/02/2004



ASSIGNEE:

SONY CORPORATION
7-35, KITASHINAGAWA 6-CHOME
SHINAGAWA-KU, TOKYO 141-0032, JAPAN

SERIAL NUMBER: 10944386

FILING DATE: 09/17/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: VERTICAL-CAVITY SURFACE-EMITTING LASER DEVICE ARRAY AND METHOD OF
MANUFACTURING THE SAME

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



1/31/92

102843821

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

9-17-04

1. Name of conveying party(ies):

YOSHIKI WATANABE
HIRONOBU NARUI
YOSHINORI YAMAUCHI
YUICHI KUROMIZU
YOSHIYUKI TANAKA

2. Name and address of receiving party(ies):

Name: Sony Corporation

Internal Address:

7-35, Kitashinagawa 6-chome

Shinagawa-ku, Tokyo 141-0032, Japan

Street Address:

City: _____ State: _____ Zip: _____

Additional Name(s) & Address(es) attached Yes No

Additional name(s) of conveying party(ies) attached?

Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date August 31 and September 2 and 3, 2004

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: 8/31/04, 9/2/04 and 9/3/04

A. Patent Application No.(s)

B: Patent No.(s)

Attorney Docket No. 09792909-5975

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

SONNENSCHN NATH & ROSENTHAL LLP
P.O. Box #061080
Wacker Drive Station
Sears Tower
Chicago, IL 60606-1080
Customer ID No. 26263

6. Total number of applications and patents involved

1

7. Total Fee (37 CFR 3.41) \$ 40.00

Enclosed

Authorized to be charged to American Express Acct. No. 378571697402000. Form 2038 is attached for that purpose.

Any deficiency is authorized to be charged to deposit account or any additional fees

8. Deposit Account Number:

19.3140

(Attach duplicate copy of this page if paying by deposit account)

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.

David R. Metzger

Name of Person Signing

Signature

September 17, 2004

Date

Total number of pages 3

Mail documents to be recorded and required cover sheet information to:

Commissioner for Patents
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

22264 U.S. PTO
10/944386

091704

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in VERTICAL-CAVITY SURFACE-EMITTING LASER DEVICE ARRAY AND METHOD OF MANUFACTURING THE SAME

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: _____, Filing Date: _____.

This assignment executed on the dates indicated below.

Yoshiaki WATANABE

Name of first or sole inventor

Execution date of U.S. Patent Application

Kanagawa, Japan

Residence of first or sole inventor

Yoshiaki Watanabe
Signature of first or sole inventor

August 31, 2008
Date of this assignment

Hironobu NARUI

Name of second inventor	Execution date of U.S. Patent Application
Kanagawa, Japan	
Residence of second inventor	
<i>Hironobu Narui</i>	<i>August 31, 2004</i>
Signature of second inventor	Date of this assignment

Yoshinori YAMAUCHI

Name of third inventor	Execution date of U.S. Patent Application
Kanagawa, Japan	
Residence of third inventor	
<i>Yoshinori Yamachi</i>	<i>August 31, 2004</i>
Signature of third inventor	Date of this assignment

Yuichi KURUMIZU

Name of fourth inventor	Execution date of U.S. Patent Application
Kanagawa, Japan	
Residence of fourth inventor	
<i>Yuichi Kurumizu</i>	<i>September 3, 2004</i>
Signature of fourth inventor	Date of this assignment

Yoshiyuki TANAKA

Name of fifth inventor	Execution date of U.S. Patent Application
Miyagi, Japan	
Residence of fifth inventor	
<i>Yoshiyuki Tanaka</i>	<i>Sept, 2, 2004</i>
Signature of fifth inventor	Date of this assignment

PATENT

RECORDED: 08/17/2006

REEL: 018131 FRAME: 0549