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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SHUNSUKE KONO | 09/16/2011 |
| HIROYUKI YOKOYAMA | 08/19/2011 |
| MASARU KURAMOTO | 09/20/2011 |
| TOMOYUKI OKI | 09/12/2011 |
| RECEIVING PARTY DATA | |
| Name: | Sony Corporation |
| Street Address: | 1-7-1 Konan, Minato-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Name: | TOHOKU UNIVERSITY |
| Street Address: | 2-1-1 KATAHIRA, AOBA-KU, SENDAI-SHI |
| City: | MIYAGI |
| State/Country: | JAPAN |
| Postal Code: | 980-8577 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14186679 |
| CORRESPONDENCE DATA | |
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| SIGNATURE: | /Jeffrey M. ingalls/ |
| DATE SIGNED: | 05/23/2014 |
| Total Attachments: 5 | |

PATENT

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ASSIGNMENT

WHEREAS, the undersigned, to wit: WHEREAS, the undersigned, to wit: Shunsuke Kono, Hiroyuki Yokoyama, Masaru Kuramoto, and Tomoyuki Oki; (hereinafter "ASSIGNORS"), are the lawful owners of an invention entitled: LASER DIODE ASSEMBLY, on which a patent application of the United States is executed of even date herewith and is about to be filed in the United States Patent and Trademark Office;

AND WHEREAS, SONY CORPORATION and a corporation duly organized and existing under the laws of Japan and having its principal office and place of business at 1-7-1 Konan, Minato-ku Tokyo, Japan and TOHOKU UNIVERSITY, a corporation duly organized and existing under the laws of Japan and having its principal office and place of business at 2-1-1 Katahira, Aoba-ku, Sendai-shi, Japan, (hereinafter "ASSIGNEES") desires to acquire the entire right, title, and interest therein;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said ASSIGNORS do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by said ASSIGNORS had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and ASSIGNORS hereby authorize and request the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.

ASSIGNORS hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.

ASSIGNORS furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.

Signature

Date Signed

Shunsuke Kono
Name: Shunsuke Kono

September 16, 2011

Address: c/o Tohoku University
2-1-1 Katahira, Aoba-ku, Sendai-shi
Miyagi, 980-8577 Japan

Before me personally appeared the person whose name is subscribed to the foregoing instrument, and executed the foregoing instrument in my presence for the purpose contained therein, by signing his/her name hereto.

Signature

Date Signed

Mari Watanabe
Mari Watanabe

September 22, 2011

Signature

Hiroyuki Yokoyama

Name: Hiroyuki Yokoyama

Date Signed

August 19, 2011

Address: c/o Tohoku University
2-1-1 Katahira, Aoba-ku, Sendai-shi
Miyagi, 980-8577 Japan

Before me personally appeared the person whose name is subscribed to the foregoing instrument, and executed the foregoing instrument in my presence for the purpose contained therein, by signing his/her name hereto.

Signature

Hitomi Suzuki

Date Signed

August 22, 2011

Signature

Masaru Kuramoto
Name: Masaru Kuramoto

Date Signed

Sep. 20, 2011

Address: c/o Sony Corporation
1-7-1 Konan, Minato-ku
Tokyo, Japan

Before me personally appeared the person whose name is subscribed to the foregoing instrument, and executed the foregoing instrument in my presence for the purpose contained therein, by signing his/her name hereto.

Signature

Mari Watanabe
Mari Watanabe

Date Signed

September 22, 2011

S11P1903US00J
3712174-3010

Signature

Date Signed

Tomoyuki Oki
Name: Tomoyuki Oki

Sep. 12, 2011

Address: c/o Sony Corporation.
1-7-1 Konan, Minato-ku
Tokyo Japan

Before me personally appeared the person whose name is subscribed to the foregoing instrument, and executed the foregoing instrument in my presence for the purpose contained therein, by signing his/her name hereto.

Signature

Date Signed

Mari Watanabe
Mari Watanabe

September 22, 2011