

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TOSHIBA MATERIALS CO., LTD. | 12/09/2021 |
| RECEIVING PARTY DATA | |
| Name: | SEOUL SEMICONDUCTOR CO., LTD. |
| Street Address: | 97-11, SANDAN-RO 163 BEON-GIL, DANWON-GU |
| Internal Address: | ANSAN-SI |
| City: | GYEONGGI-DO |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 15429 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17234035 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
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| NAME OF SUBMITTER: | LAVONDA PACE |
| SIGNATURE: | /LAVONDA PACE/ |
| DATE SIGNED: | 01/10/2022 |
| Total Attachments: 4 | |
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| source=0500S-000039USCOD_Executed_Assignment#page4.tif | |

ASSIGNMENT

WHEREAS, TOSHIBA MATERIALS CO., LTD., a corporation organized and existing under the laws of Japan, having a place of business at 8, Shinsugita-Cho, Isogo-Ku, Yokohama-Shi 235-8522 Japan, hereinafter called the "Assignor", has acquired the entire right, title and interest in and to the invention described in United States Patent Application Serial No. 17/234,035 ("the '035 Application"), entitled WHITE LIGHT SOURCE SYSTEM, as shown in the Assignments executed on July 27, 2021, and recorded at REEL/FRAME No. 057090/0337 (Exhibit A), including but not limited to:

- (i) the entire right, title and interest in and to the invention described in United States Patent Application Serial No. 16/853,847 ("the '847 Application"), filed April 21, 2020, entitled WHITE LIGHT SOURCE SYSTEM, as shown in the Assignments executed on June 8, 2021, and recorded at REEL/FRAME No. 057089/0376 (Exhibit B), and to which the '035 Application claims priority as a continuation;
- (ii) the entire right, title and interest in and to the invention described in United States Patent Application Serial No. 16/444,243 ("the '243 Application"), filed June 18, 2019, entitled WHITE LIGHT SOURCE SYSTEM, as shown in the Assignments executed on June 11, 2021, and recorded at REEL/FRAME No. 057436/0701 (Exhibit C), and to which the '847 Application claims priority as a continuation;
- (iii) the entire right, title and interest in and to the invention described in United States Patent Application Serial No. 16/251,468 ("the '468 Application"), filed January 18, 2019, entitled WHITE LIGHT SOURCE SYSTEM, as shown in the Assignments executed on June 11, 2021, and recorded at REEL/FRAME No. 057436/0701 (Exhibit C), and to which the '243 Application claims priority as a continuation;
- (iv) the entire right, title and interest in and to the invention described in United States Patent Application Serial No. 15/850,399 ("the '399 Application"), filed December 21, 2017, entitled WHITE LIGHT SOURCE SYSTEM, as shown in the Assignments executed on June 11, 2021, and recorded at

REEL/FRAME No. 057436/0701 (Exhibit C), and to which the '468 Application claims priority as a continuation; and

- (v) the entire right, title and interest in and to the invention described in International Patent Application Serial No. PCT/JP2016/068714 ("the '714 Application"), filed June 23, 2016, entitled WHITE LIGHT SOURCE SYSTEM, as shown in the Assignments executed on November 16, 2017, and recorded at REEL/FRAME No. 044462/0860 (Exhibit D), and to which the '399 Application claims priority as a continuation.

WHEREAS, the Assignor desires to assign all of its right, title and interest in and to United States Patent Application Serial No. 17/234,035 to SEOUL SEMICONDUCTOR CO., LTD., a corporation organized and existing under the laws of Republic of Korea, having a place of business at 97-11, Sandan-ro 163 beon-gil, Danwan-gu, Ansan-si, Republic of Korea, hereinafter called the "Assignee"; and

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the Assignor's right, title and interest for the United States in and to the invention and the patent application identified above, any and all applications claiming the benefit thereof including the right of priority, and any patents that may issue for said invention in the United States; together with the Assignor's right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the Assignor's right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

THE ASSIGNOR hereby covenants and agrees, for both the Assignor and the Assignor' legal representatives, that the Assignor will assist the Assignee and in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

THE ASSIGNOR hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Agreement; and

THE COMMISSIONER of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment, and the Assignor requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to the Assignee.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

Dated: December, 9, 2021

Katsuaki Aoki
(Signature)

Katsuaki AOKI
(Printed Name)

TOSHIBA MATERIALS CO., LTD.

Dated: 2022.1.5



(Signature)

Ki ho Kim

(Printed Name)

SEOUL SEMICONDUCTOR CO., LTD.