

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4642680

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| JUN-ICHI NISHIDE | 10/12/2017 |
| YASUHIDE HIRAGA | 10/12/2017 |
| CHIHAYA ADACHI | 09/06/2017 |
| TAKEHIRO TAKAHASHI | 10/09/2017 |

RECEIVING PARTY DATA

| | |
|------------------------|--|
| Name: | HODOGAYA CHEMICAL CO., LTD |
| Street Address: | 2-4-1, YAESU, CHUO-KU |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 104-0028 |
| Name: | HIRATA CORPORATION |
| Street Address: | 111 HITOTSUGI, UEKI-MACHI, KITA-KU, KUMAMOTO-SHI |
| City: | KUMAMOTO |
| State/Country: | JAPAN |
| Postal Code: | 861-0198 |
| Name: | KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION |
| Street Address: | 6-10-1, HAKOZAKI, HIGASHI-KU, FUKUOKA-SHI |
| City: | FUKUOKA |
| State/Country: | JAPAN |
| Postal Code: | 812-8581 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15560681 |

CORRESPONDENCE DATA

Fax Number: (617)227-4420

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: LOCKE LORD LLP

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ATTORNEY DOCKET NUMBER: 451350.229US9

NAME OF SUBMITTER: GREGORY G. BENNETT

SIGNATURE: /Gregory G. Bennett/

DATE SIGNED: 10/16/2017

Total Attachments: 9

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Jun-ichi Nishide; and Yasuhide Hiraga (hereinafter referred to as Assignors), residing at c/o HIRATA CORPORATION, 111 Hitotsugi, Ueki-machi, Kita-ku, Kumamoto-shi, Kumamoto 861-0198 Japan; and c/o HIRATA CORPORATION, 111 Hitotsugi, Ueki-machi, Kita-ku, Kumamoto-shi, Kumamoto 861-0198;

WHEREAS, Assignors have invented certain new and useful improvements in MATERIAL FOR ORGANIC ELECTROLUMINESCENT DEVICE, LIGHT-EMITTING MATERIAL, AND ORGANIC ELECTROLUMINESCENT DEVICE, set forth in a Patent application for which an International Application was filed on March 14, 2016, PCT/JP2016/057918, designating the United States; and

WHEREAS, HODOGAYA CHEMICAL CO., LTD., a Company organized under and pursuant to the laws of Japan having its principal place of business at 2-4-1, Yaesu, Chuo-ku, Tokyo 104-0028 JAPAN, HIRATA CORPORATION, a Company organized under and pursuant to the laws of Japan having its principal place of business at 111 Hitotsugi, Ueki-machi, Kita-ku, Kumamoto-shi, Kumamoto 861-0198 Japan, and KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, a University organized under and pursuant to the laws of Japan having its principal place of business at 6-10-1, Hakozaki, Higashi-ku, Fukuoka-shi, Fukuoka 812-8581 Japan (hereinafter referred to as Assignees), 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 therefore and thereon.

NOW, THEREFORE, for 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 Assignees, 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 Assignees, 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 Assignees, 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 Assignees under law or that have already been transferred to Assignees, 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 Assignees, 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 Assignees, its successors, legal representatives and assigns, whenever counsel of Assignees, 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; and, 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 Assignees, as Assignees of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignees, 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:

LOCKE LORD LLP

All practitioners at Customer Number 21874

AND Assignor acknowledges an obligation of assignment of this invention to Assignees at the time the invention was made.

Date: Oct. 12, 2017

Signature: 西出 順一
Jun-ichi Nishide

Date: Oct. 12, 2017

Signature: 平賀 靖英
Yasuhide Hiraga

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Chihaya Adachi (hereinafter referred to as Assignor), residing at c/o KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, 6-10-1, Hakozaki, Higashi-ku, Fukuoka-shi, Fukuoka 812-8581 Japan;

WHEREAS, Assignor have invented certain new and useful improvements in MATERIAL FOR ORGANIC ELECTROLUMINESCENT DEVICE, LIGHT-EMITTING MATERIAL, AND ORGANIC ELECTROLUMINESCENT DEVICE, set forth in a Patent application for which an International Application was filed on March 14, 2016, PCT/JP2016/057918, designating the United States; and

WHEREAS, HODOGAYA CHEMICAL CO., LTD., a Company organized under and pursuant to the laws of Japan having its principal place of business at 2-4-1, Yaesu, Chuo-ku, Tokyo 104-0028 JAPAN, HIRATA CORPORATION, a Company organized under and pursuant to the laws of Japan having its principal place of business at 111 Hitotsugi, Uekimachi, Kita-ku, Kumamoto-shi, Kumamoto 861-0198 Japan, and KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, a University organized under and pursuant to the laws of Japan having its principal place of business at 6-10-1, Hakozaki, Higashi-ku, Fukuoka-shi, Fukuoka 812-8581 Japan (hereinafter referred to as Assignees), 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 therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignees, 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 Assignees, 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, Assignor hereby represent and warrant to Assignees, 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 Assignees under law or that have already been transferred to Assignees, Assignor 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 Assignor 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, Assignor hereby covenant and agree to and with Assignees, its successors, legal representatives and assigns that: Assignor 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 Assignees, its successors, legal representatives and assigns, whenever counsel of Assignees, 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; and, 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 Assignor hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignees, as Assignees of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignees, its successors, legal representatives and assigns.

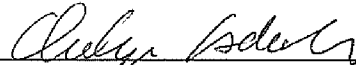
AND Assignor hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply

with the rules of the United States Patent and Trademark Office for recordation of this document:

LOCKE LORD LLP

All practitioners at Customer Number 21874

AND Assignor acknowledges an obligation of assignment of this invention to Assignees at the time the invention was made.

Date: 06/09/2017 Signature: 
Chihaya Adachi

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Takehiro Takahashi (hereinafter referred to as Assignor), residing at c/o HODOGAYA CHEMICAL CO., LTD., 2-4-1, Yaesu, Chuo-ku, Tokyo 104-0028 Japan;

WHEREAS, Assignor have invented certain new and useful improvements in MATERIAL FOR ORGANIC ELECTROLUMINESCENT DEVICE, LIGHT-EMITTING MATERIAL, AND ORGANIC ELECTROLUMINESCENT DEVICE, set forth in a Patent application for which an International Application was filed on March 14, 2016, PCT/JP2016/057918, designating the United States; and

WHEREAS, HODOGAYA CHEMICAL CO., LTD., a Company organized under and pursuant to the laws of Japan having its principal place of business at 2-4-1, Yaesu, Chuo-ku, Tokyo 104-0028 JAPAN, HIRATA CORPORATION, a Company organized under and pursuant to the laws of Japan having its principal place of business at 111 Hitotsugi, Ueki-machi, Kita-ku, Kumamoto-shi, Kumamoto 861-0198 Japan, and KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, a University organized under and pursuant to the laws of Japan having its principal place of business at 6-10-1, Hakozaki, Higashi-ku, Fukuoka-shi, Fukuoka 812-8581 Japan (hereinafter referred to as Assignees), 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 therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignees, 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 Assignees, 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, Assignor hereby represent and warrant to Assignees, 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 Assignees under law or that have already been transferred to Assignees, Assignor 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 Assignor have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

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AND Assignor hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignees, as Assignees of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignees, its successors, legal representatives and assigns.

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with the rules of the United States Patent and Trademark Office for recordation of this document:

LOCKE LORD LLP

All practitioners at Customer Number 21874

AND Assignor acknowledges an obligation of assignment of this invention to Assignees at the time the invention was made.

Date: 9, 10, 2017 Signature: Takehiro Takahashi
Takehiro Takahashi