

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5976353

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TAKAHIRO KAJI | 01/08/2020 |
| YUKIHIRO TOMINARI | 01/08/2020 |
| TOSHIKI YAMADA | 01/08/2020 |
| AKIRA OTOMO | 01/08/2020 |
| RECEIVING PARTY DATA | |
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| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 184-8795 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16641015 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 124943-5002 |
| NAME OF SUBMITTER: | JANICE LOGAN |
| SIGNATURE: | /Janice Logan/ |
| DATE SIGNED: | 02/21/2020 |
| Total Attachments: 4 | |
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ASSIGNMENT

WHEREAS WE, the below named inventors, (hereinafter referred to as "Assignors"), have made an invention entitled:

LAMINATE FOR NON-LINEAR OPTICS CONTAINING ELECTRO-OPTIC POLYMER LAYER AND METHOD FOR PRODUCING SAME

for which WE filed International Application No. PCT/JP2018/031089; and

WHEREAS **National Institute of Information and Communications Technology** whose post office address is 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan (hereinafter referred to as "Assignee"), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the applications of patent on this invention and the Letters Patent to be issued upon these applications;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee has hereby acknowledged, WE, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, OUR entire right, title, and interest in and to this invention and all United States applications, and all divisions, and continuations thereof, and all United States Letters Patents which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and divisionals and reissues thereof; and WE hereby authorize and request the Director of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent of this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that WE have the full right to convey the interest assigned by this Assignment, and WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, WE have hereunto set my hands.

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|-----------------------|--|
| Full Name of Assignor | Takahiro KAJI |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature | Takahiro Kaji |
| Date | January 8, 2020 |
| Full Name of Assignor | Yukihiro TOMINARI |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature | Yukihiro Tominari |
| Date | January 8, 2020 |

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|-----------------------|--|
| Full Name of Assignor | Toshiki YAMADA |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature | |
| Date | |
| Full Name of Assignor | Akira OTOMO |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature | <i>Akira Otomo</i> |
| Date | <i>January 8, 2020</i> |

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NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee has hereby acknowledged, WE, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, OUR entire right, title, and interest in and to this invention and all United States applications, and all divisions, and continuations thereof, and all United States Letters Patents which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and divisionals and reissues thereof; and WE hereby authorize and request the Director of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent of this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;


AND, WE HEREBY covenant that WE have the full right to convey the interest assigned by this Assignment, and WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

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| Full Name of Assignor | Takahiro KAJI |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature | |
| Date | |
| Full Name of Assignor | Yukihiro TOMINARI |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature | |
| Date | |

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|-----------------------|--|
| Full Name of Assignor | Toshiki YAMADA |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature |  |
| Date | January 8, 2020 |
| Full Name of Assignor | Akira OTOMO |
| Address | c/o National Institute of Information and Communications Technology, 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo 184-8795 Japan |
| Signature | |
| Date | |

Morgan, Lewis & Bockius LLP