

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8126624

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MENG-JIA SUN | 01/25/2023 |
| CHAO ZHENG | 01/25/2023 |
| SJOERD HOOGLAND | 01/31/2023 |
| EDWARD HARTLEY SARGENT | 01/31/2023 |
| RECEIVING PARTY DATA | |
| Name: | THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO |
| Street Address: | BANTING INSTITUTE, HERITAGE BUILDING |
| Internal Address: | 100 COLLEGE STREET, SUITE 413 |
| City: | TORONTO |
| State/Country: | CANADA |
| Postal Code: | M5G 1L5 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17464598 |
| CORRESPONDENCE DATA | |
| Fax Number: | (613)563-7671 |
| <i>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.</i> | |
| Phone: | 6135670762 |
| Email: | ksakurai@mbm.com |
| Correspondent Name: | MBM INTELLECTUAL PROPERTY AGENCY |
| Address Line 1: | 275 SLATER STREET |
| Address Line 2: | 14TH FLOOR |
| Address Line 4: | OTTAWA, CANADA K1P 5H9 |
| ATTORNEY DOCKET NUMBER: | 87046954US02 |
| NAME OF SUBMITTER: | KIYOMI SAKURAI |
| SIGNATURE: | /Kiyomi Sakurai/ |
| DATE SIGNED: | 08/22/2023 |
| Total Attachments: 7 | |

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ASSIGNMENT

WHEREAS,

Edward Hartley Sargent, whose full post office address is

21 Parkwood Avenue, Toronto, Ontario M4V 2W9, Canada;

Sjoerd Hoogland, whose full post office address is

80 Kingsmount Park Rd., Toronto, Ontario M4L 3L4, Canada;

Chao Zheng, whose full post office address is

608 Cherrygrove Crescent, Hamilton, Ontario L9C 7V2, Canada; and

Meng-Jia Sun, whose full post office address is

Matthias-Ehrenfried-Straße, 27, Würzburg, 97074, Germany;

hereinafter referred to collectively as "the Assignors", are inventors of an invention relating to and entitled:

HIGHLY POLARIZABLE METAL-FREE PEROVSKITES

aka

HIGHLY POLARIZABLE METAL-FREE PEROVSKITE EO MATERIALS

aka

HIGHLY POLARIZABLE 3D ORGANIC PEROVSKITES AND ELECTRO-OPTIC MATERIALS

COMPRISING SAME

hereinafter referred to as the "Invention", as fully set forth and described in an application for Letters Patent identified as:

| Country | Application /Serial Number | Filing Date | Title |
|---------------|----------------------------|----------------------|---|
| U.S.A. | 63/073,718 | September 2, 2022 | HIGHLY POLARIZABLE METAL-FREE PEROVSKITE EO MATERIALS |
| U.S.A. | 17/464,598 | September 1, 2021 | HIGHLY POLARIZABLE 3D ORGANIC PEROVSKITES AND ELECTRO-OPTIC MATERIALS COMPRISING SAME |
| International | PCT/CA2021/051220 | September 2, 2021 | HIGHLY POLARIZABLE 3D ORGANIC PEROVSKITES AND ELECTRO-OPTIC |

hereinafter referred to as the "Applications";

AND WHEREAS, **THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO**, hereinafter referred to as the "Assignee", whose full post office address is **100 College Street, Suite 413, Toronto, Ontario M5G 1L5, Canada**, has acquired from the Assignors, the Assignors' entire right, title and interest in and to the Invention, in all countries of the world, including the Assignors' rights to the Applications, and all related applications and patents thereon, including any and all, international, national and regional phase applications based on the Applications, and other counterpart applications in all countries, and any and all substitutes, divisionals, continuations and continuations-in-part, and any Letters Patent that may be obtained therefor, and in any and all reissues, extensions, renewals and reexaminations of such applications and patents, including the right to claim priority to the Applications, and to all related applications and patents thereon filed by the Assignors or Assignee, including the benefit of any right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and the benefit of any right of priority provided by any convention or treaty under domestic or foreign law, and to invoke and claim any such right of priority without further written or oral authorization from the Assignors;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors confirm they have, as of **October 16, 2020**, sold, assigned, transferred and set over, and for greater certainty, do hereby sell, assign, transfer and set over to the Assignee, its successors, assigns, or legal representatives, their entire right, title and interest for Canada, the United States and all other countries throughout the **world** in and to the Invention, together with their entire right, title and interest in and to the Applications and any and all Letters Patent that may issue for the Invention, including any and all divisions, reissues, continuations and extensions of the Applications, to the full end of the term for which each said Letters Patent may be granted, and including any right to claim priority based on the Applications, the same to be held and enjoyed as fully and completely as the same would have been held and enjoyed by the Assignors had this Assignment not been made;

The Assignors hereby confirm that the Applications were made or were authorized to be made by themselves and that they believe themselves to be the original inventors or joint inventors of a claimed invention in the Applications.

AND the Assignors, on behalf of themselves and their executors and administrators, do hereby covenant and agree to do all such lawful acts and things and to execute without further consideration such further lawful assignments, documents, assurances, applications and other instruments as may reasonably be required by the Assignee, its successors, assigns, or legal representatives, to obtain any and all Letters Patent for the Invention and vest the same in the Assignee, its successors, assigns, or legal representatives.

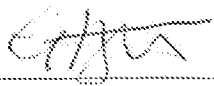
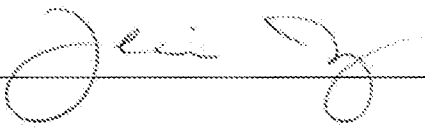
The Commissioner of Patents & Trademarks is hereby authorized and requested to issue any Letters Patent for the Applications, and all related applications thereon, to the Assignee, for its sole use and benefit; and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held by the Assignors had this Assignment and sale not been made.

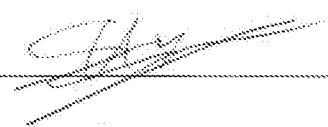
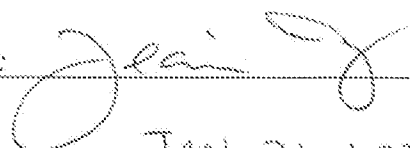
If a provision of this Assignment is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability in that jurisdiction of any other provision of this Assignment, or the validity or enforceability in other jurisdictions of that or any other provision of this Assignment.

The Assignors hereby acknowledge that any willful false statement made in this assignment/declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

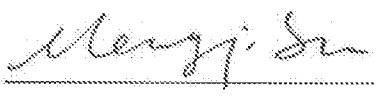
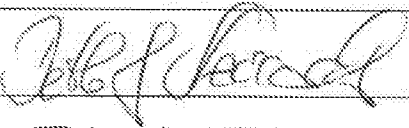
For the purpose of all legal proceedings this Assignment will be deemed to have been performed in the Province of Ontario and will be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

The Parties confirm their express wish that this Assignment be drawn up in the English language.
Les parties confirment leur volonté expresse que cette cession soit rédigée en langue anglaise.

| Assignor | Witness |
|---|--|
| Name: <u>Edward Hartley Sargent</u> | Name: <u>JEANNE ING</u> |
| Signature: <u></u> | Signature: <u></u> |
| Date: <u>JAN. 21, 2023</u> | Date: <u>JAN. 21, 2023</u> |
| (Executed in) City: <u>TORONTO</u> | (Executed in) City: <u>TORONTO</u> |
| (Executed in) Country: <u>CANADA</u> | (Executed in) Country: <u>CANADA</u> |

| Assignor | Witness |
|--|---|
| Name: <u>Sjoerd Hoogland</u> | Name: <u>JEANNIE ING</u> |
| Signature:  | Signature:  |
| Date: <u>31 Jan 2023</u> | Date: <u>JAN. 31, 2023</u> |
| (Executed in) City: <u>TORONTO</u> | (Executed in) City: <u>TORONTO</u> |
| (Executed in) Country: <u>CANADA</u> | (Executed in) Country: <u>CANADA</u> |

| Assignor | Witness |
|--------------------------------------|--------------------------------------|
| Name: <u>Chao Zheng</u> | Name: <u>Jinze Zhou</u> |
| Signature: <u>Chao Zheng</u> | Signature: <u>Jinze Zhou</u> |
| Date: <u>Jan-25-2023</u> | Date: <u>Jan-25-2023</u> |
| (Executed in) City: <u>Hamilton</u> | (Executed in) City: <u>Hamilton</u> |
| (Executed in) Country: <u>Canada</u> | (Executed in) Country: <u>Canada</u> |

| Assignor | Witness |
|---|--|
| Name: <u>Meng-Jia Sun</u> | Name: <u>Detlef Steinwachs</u> |
| Signature: <u></u> | Signature: <u></u> |
| Date: <u>25.01.2023</u> | Date: <u>25.01.2023</u> |
| (Executed in) City: <u>Würzburg</u> | (Executed in) City: <u>WÜRZBURG</u> |
| (Executed in) Country: <u>Germany</u> | (Executed in) Country: <u>GERTANY</u> |

ACKNOWLEDGEMENT

The Assignee hereby accepts the assignment. EXECUTED at Toronto (city), Canada (country).

This 21 day of February, 2023

THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO

Signature

Stéphane Lévesque, Ph.D.

Name

Patent Portfolio Manager

Title

DECLARATION OF WITNESS

I, Leanne Ambrose, whose full business address is
100 College Street, Suite 413, Toronto, Ontario M5G 1L5, Canada, hereby declare that I was personally
present and did see Stéphane Lévesque of THE GOVERNING COUNCIL OF THE UNIVERSITY
OF TORONTO who is personally known to me to be the person named in the above assignment duly sign
and execute the same.

Declared at Toronto (city), Canada (country).

This 21 day of February, 2023

Signature of Witness: