

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7064339

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EVELINE POSTELNICU	11/22/2019
SAMARTH AGGARWAL	11/26/2019
KAZUMI WADA	11/25/2019
JURGEN MICHEL	11/22/2019
LIONEL C. KIMERLING	11/22/2019
MICHELLE L. CLARK	11/26/2019
ANURADHA M. AGARWAL	11/22/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
<b>Street Address:</b>	77 MASSACHUSETTS AVE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17522819
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	6179477280
<b>Email:</b>	spakowski@smithbaluch.com
<b>Correspondent Name:</b>	SMITH BALUCH LLP
<b>Address Line 1:</b>	376 BOYLSTON ST.
<b>Address Line 2:</b>	SUITE 401
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02116
<b>ATTORNEY DOCKET NUMBER:</b>	MIT-20978US02
<b>NAME OF SUBMITTER:</b>	JASMINE M WALLAS
<b>SIGNATURE:</b>	/Jasmine M. Wallas/
<b>DATE SIGNED:</b>	12/09/2021

PATENT

**Total Attachments: 8**

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page1.tif

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page2.tif

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page3.tif

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page4.tif

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page5.tif

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page6.tif

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page7.tif

source=MIT-20978US01\_Assignment\_-\_EXECUTED#page8.tif

ASSIGNMENT

Eveline Postelnicu, residing at 98 Holland St, #2, Somerville, MA 02144, United States; Samarth Aggarwal, residing at 4 Stinson Ct., APT#1, Cambridge, MA 02139, United States; Kazumi WADA, residing at 23 Hill Street, Lexington, MA 02421, United States; Jurgen MICHEL, residing at 500 SUMMER STREET, Arlington, MA 02474, United States; Lionel C. KIMERLING, residing at 369 Strawberry Hill road, Concord, MA 01742, United States; Michelle L. Clark, residing at 205 Garland Dr., Pelham, NH 03076, United States; and Anuradha M. AGARWAL, residing at 105 Hickory Road, Weston, MA 02493, United States; (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent entitled **Amorphous Ge Waveguides for Spectroscopic Sensing and Data Communication Applications**, and which is a:

- (1) ☒ provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☒ bearing Application No.62/770,370, and filed on 2018-11-21;
- (2) ☒ non-provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☒ bearing Application No.16/691,007, and filed on 2019-11-21;  
and/or
- (3) ☒ PCT application
  - (a) ☒ bearing Application No. PCT/US2019/062616, and filed on 2019-11-21.

**WHEREAS, Massachusetts Institute of Technology, a University having its principal place of business at 77 Massachusetts Ave, Cambridge, MA 02139, United States, its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.**

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the Invention(s);

(b) the application(s) for patent identified above;

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any priority application(s), substitute application(s), division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful

owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of Smith Baluch LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application(s) identified above when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Inventor Signature: Eveline Postelnicu Date: 11/22/2019  
Eveline Postelnicu  
Witness Signature: Cory W. James Date: 11/22/2019  
Print Witness Name: Cory W. James

Inventor Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Samarth Aggarwal  
Witness Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Print Witness Name: \_\_\_\_\_

Inventor Signature: Kazumi Wada Date: 11/25/2019  
Kazumi WADA  
Witness Signature: Cory W. James Date: 11/25/2019  
Print Witness Name: Cory W. James

Inventor Signature: *Eveline Postelnicu* Date: 11/22/2019  
Eveline Postelnicu  
Witness Signature: *Cory W. James* Date: 11/22/2019  
Print Witness Name: Cory W. James

Inventor Signature: *Samarth Agarwal* Date: 11/26/2019  
Samarth Agarwal  
Witness Signature: *Utkarsh Agarwal* Date: 11/26/2019  
Print Witness Name: Utkarsh Agarwal

Inventor Signature: *Karen WADA* Date: 11/25/2019  
Karen WADA  
Witness Signature: *Cory W. James* Date: 11/25/2019  
Print Witness Name: Cory W. James

Inventor Signature: Jürgen Michel Date: 11/22/2019  
Jürgen MICHEL  
Witness Signature: Cory W. James Date: 11/22/2019  
Print Witness Name: Cory W. James

Inventor Signature: Lionel C. Kimerling Date: 11/22/2019  
Lionel C. KIMERLING  
Witness Signature: Cory W. James Date: 11/22/2019  
Print Witness Name: Cory W. James

Inventor Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Michelle L. Clark  
Witness Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Print Witness Name: \_\_\_\_\_



Inventor Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jürgen MICHEL

Witness Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Witness Name: \_\_\_\_\_

Inventor Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Lionel C. KIMERLING

Witness Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Witness Name: \_\_\_\_\_

Inventor Signature:  Date: 11-26-19  
Michelle L. Clark

Witness Signature:  Date: 11-26-19

Print Witness Name: Mark C Tentindo

Inventor Signature: Anuradha M. Agarwal Date: Nov 22<sup>nd</sup> 2019  
Anuradha M. AGARWAL  
Witness Signature: Cory W. James Date: 11/22/2019  
Print Witness Name: Cory W. JAMES

For and on behalf of ASSIGNEE:

Date: 1/13/20 By: [Signature]  
Name: Jonathan Hsiao  
Title: MIT Intellectual Property Officer  
University: Massachusetts Institute of Technology

Witness Signature: Emma Blodes Date: 1/13/20  
Print Witness Name: Emma Blodes