

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5958995

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAL LIPSON	08/09/2017
YOU-CHIA CHANG	07/13/2017
SAMANTHA P. ROBERTS	07/20/2017
BRIAN STERN	01/16/2018
RECEIVING PARTY DATA	
Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Street Address:	535 WEST 116TH STREET
Internal Address:	412 LOW MEMORIAL LIBRARY
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10027
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16626616
CORRESPONDENCE DATA	
Fax Number:	(215)568-3439
<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>	
Email:	assignments@woodcock.com
Correspondent Name:	BAKER & HOSTETLER LLP
Address Line 1:	2929 ARCH STREET, CIRA CENTRE
Address Line 2:	12TH FLOOR
Address Line 4:	PHILADELPHIA, PENNSYLVANIA 19104
ATTORNEY DOCKET NUMBER:	101879.000113
NAME OF SUBMITTER:	VALERIE CHICCHI
SIGNATURE:	/Valerie Chicchi/
DATE SIGNED:	02/12/2020
Total Attachments: 8	
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ASSIGNMENT

WHEREAS, I, Michal Lipson, a citizen of United States residing at 452 Riverside Drive, Apt. 62, New York, New York 10027, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 101879.000037 / CU17260 ("the invention"), assigned application number 62/524,901 filed on June 26, 2017, entitled **RESONANCE-FREE LIGHT RECYCLING IN WAVEGUIDES** ("the subject application");

AND WHEREAS, The Trustees of Columbia University in the City of New York, ASSIGNEE, having a place of business at 535 West 116th Street, 412 Low Memorial Library, New York, New York 10027, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

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representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 9th day of August, year of 2017.

Michal Lipson
Signature - Michal Lipson

STATEMENT OF WITNESS

SIGNED at NY NY USA
(City) (State) (Country)

This 9th day of August, 2017.

I, Kristal Paulino whose full residence address is
530 WEST 10th ST
NY NY 10027

was personally present and did see Michal Lipson execute the above assignment on the 9th day of August, 2017, and such assignor is personally known to me to be the person described in such document.

[Signature]
Signature of Witness

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ASSIGNMENT

WHEREAS, I, **You-Chia Chang**, a citizen of Taiwan, residing at **251 West 109th Street, Apt. 3B, New York, New York 10025**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **101879.000037 / CU17260** ("the invention"), assigned application number **62/524,901** filed on **June 26, 2017**, entitled **RESONANCE-FREE LIGHT RECYCLING IN WAVEGUIDES** ("the subject application");

AND WHEREAS, **The Trustees of Columbia University in the City of New York**, ASSIGNEE, having a place of business at **535 West 116th Street, 412 Low Memorial Library, New York, New York 10027**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

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representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 13th day of July, year of 2017.

You Chia Chang
Signature - You-Chia Chang

STATEMENT OF WITNESS

SIGNED at New York City, New York, U.S.A.
(City) (State) (Country)

This 13th day of July, 2017.

I, MOSHE ZANKA whose full residence address is
3060 Henry Hudson Parkway, Apt 3B, New York, New York,
10463

was personally present and did see **You-Chia Chang** execute the above assignment on the 13
day of July, 2017, and such assignor is personally known to me to be the person
described in such document.

Moshe Z
Signature of Witness

ASSIGNMENT

WHEREAS, I, **Samantha P. Roberts**, a citizen of **United States**, residing at **2232 Slaterville Road, Ithaca, New York 14850**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **101879.000037 / CUI7260** ("the invention"), assigned application number **62/524,901** filed on **June 26, 2017**, entitled **RESONANCE-FREE LIGHT RECYCLING IN WAVEGUIDES** ("the subject application");

AND WHEREAS, **The Trustees of Columbia University in the City of New York**, ASSIGNEE, having a place of business at **535 West 116th Street, 412 Low Memorial Library, New York, New York 10027**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

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representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 20th day of July, year of 2017.


Signature – Samantha P. Roberts

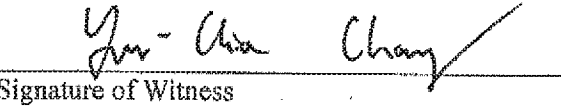
STATEMENT OF WITNESS

SIGNED at New York NY USA
(City) (State) (Country)

This 20th day of July, 2017.

I, You - Chia Chang whose full residence address is
251 W 109th St, New York, NY 10025

was personally present and did see Samantha P. Roberts execute the above assignment on the 20 day of July, 2017, and such assignor is personally known to me to be the person described in such document.


Signature of Witness

ASSIGNMENT

WHEREAS, I, **Brian Stern**, a citizen of **United States**, residing at **195 Claremont Avenue, Apt. 23, New York, New York 10027**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **101879.000037 / CU17260** ("the invention"), assigned application number **62/524,901** filed on **June 26, 2017**, entitled **RESONANCE-FREE LIGHT RECYCLING IN WAVEGUIDES** ("the subject application");

AND WHEREAS, **The Trustees of Columbia University in the City of New York**, ASSIGNEE, having a place of business at **535 West 116th Street, 412 Low Memorial Library, New York, New York 10027**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 16 day of Jan, year of 2018.

Brian Stern
Signature - Brian Stern

STATEMENT OF WITNESS

SIGNED at New York New York USA
(City) (State) (Country)

This 16 day of Jan, 2018.

I, You-Chia Chang whose full residence address is
251 W 109th St Apt 3B, New York, NY 10025

was personally present and did see Brian Stern execute the above assignment on the 16 day of Jan, 2018, and such assignor is personally known to me to be the person described in such document.

You-Chia Chang
Signature of Witness