506536726 03/04/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
GAVIN KENNEALLY	12/01/2020
AVIK DE	03/03/2020
DANIEL E KODITSCHEK	11/20/2020
THOMAS TURNER TOPPING	11/18/2020

RECEIVING PARTY DATA

Name:	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
Street Address:	3600 CIVIC CENTER BLVD.
Internal Address:	9TH FLOOR
City:	PHILADELPHIA
State/Country:	PENNSYLVANIA
Postal Code:	19104

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16326320
Application Number:	62376669

CORRESPONDENCE DATA

Fax Number: (919)419-0383

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.

Phone: 9194938000

Email: eouellette@jwth.com **GREGORY A. HUNT Correspondent Name:**

Address Line 1: 3015 CARRINGTON MILL BOULEVARD

Address Line 2: SUITE 550

Address Line 4: MORRISVILLE, NORTH CAROLINA 27560

ATTORNEY DOCKET NUMBER:	3055/47 PCT/US
NAME OF SUBMITTER:	GREGORY A. HUNT
SIGNATURE:	/Gregory A. Hunt/
DATE SIGNED:	03/04/2021

PATENT REEL: 055492 FRAME: 0952 506536726

Total Attachments: 12 source=3055-47 PCT-US- Fully Executed Assignment#page1.tif source=3055-47 PCT-US- Fully Executed Assignment#page2.tif source=3055-47 PCT-US- Fully Executed Assignment#page3.tif source=3055-47 PCT-US- Fully Executed Assignment#page4.tif source=3055-47 PCT-US- Fully Executed Assignment#page5.tif source=3055-47 PCT-US- Fully Executed Assignment#page6.tif source=3055-47 PCT-US- Fully Executed Assignment#page7.tif source=3055-47 PCT-US- Fully Executed Assignment#page8.tif source=3055-47 PCT-US- Fully Executed Assignment#page9.tif source=3055-47 PCT-US- Fully Executed Assignment#page10.tif source=3055-47 PCT-US- Fully Executed Assignment#page11.tif source=3055-47 PCT-US- Fully Executed Assignment#page11.tif

PATENT REEL: 055492 FRAME: 0953

ASSIGNMENT

WHEREAS, I, Gavin Kenneally, a citizen of Canada, residing at 2400 Chestnut Street Apt. 702, Philadelphia, Pennsylvania, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 3055/47 PCT/US ("the invention"), assigned application number 16/326,320 filed February 18, 2019, which is entitled SYSTEMS AND METHODS FOR CONTROLLING ROBOTIC BEHAVIORS ("the subject application"), and which claims priority to patent application number 62/376,669 filed 8/18/2016 ("the priority application").

AND WHEREAS, The Trustees of the University of Pennsylvania, ASSIGNEE, having a place of business at 3600 Civic Center Blvd 9th Floor, Philadelphia, Pennsylvania, 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 WHER	EOF, I hav	e signed my name belo	w on the date indicated above
my signature. 12/1/2020			
Executed thisday	y of	, year of 202	20.
Gavin Kenneally Gavin Kenneally			
Witnessed by:			
Witness Name (Print)			
Witness Signature		Date	

This assignment is accepted on behalf of The Trustees of the University of Pennsylvania by:

ASSIGNMENT

WHEREAS, I, Avik De, a citizen of the United States, residing at 2400 Chestnut Street, Apt. 3006, Philadelphia, Pennsylvania, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 3055/47 PCT/US ("the invention"), assigned application number 16/326,320 filed February 18, 2019, which is entitled SYSTEMS AND METHODS FOR CONTROLLING ROBOTIC BEHAVIORS ("the subject application"), and which claims priority to patent application number 62/376,669 filed 8/18/2016 ("the priority application").

AND WHEREAS, The Trustees of the University of Pennsylvania, ASSIGNEE, having a place of business at 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania, 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 h	nave signed my	name below on the date indicated above
my signature.		
Executed this3day of	March	, year of 2020.
/Avik De/ Avik De		
*********	*****	**********
STATEMENT OF NOTARY PUBLIC		
STATE OF:		
: SS		
COUNTY OF:		
On this day of		, year of, before me personally
came the above named		to me personally known and known
to me to be the same individual who exec	•	
to me that execution of the same was or	f that person's	own free will for the use and purposes
therein set forth.		
Notary Public		

This assignment is accepted on behalf of The Trustees of the University of Pennsylvania by:

ASSIGNMENT

WHEREAS, I, Daniel E. Koditschek, a citizen of the United States, residing at 619 W. Upsal Street, Philadelphia, Pennsylvania, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 3055/47 PCT/US ("the invention"), assigned application number 16/326,320 filed February 18, 2019, which is entitled SYSTEMS AND METHODS FOR CONTROLLING ROBOTIC BEHAVIORS ("the subject application"), and which claims priority to patent application number 62/376,669 filed 8/18/2016 ("the priority application").

AND WHEREAS, The Trustees of the University of Pennsylvania, ASSIGNEE, having a place of business at 3600 Civic Center Blvd, 9th Floor, Philadelphia, Pennsylvania, 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.

Witness Signature

DOCKET NO.: 3055/47 PCT/US

my signature.	whereor, I have signed	my name below on the date in	incated above
Executed this 20th	day of November	, year of 2020.	
	> /		
Daniel E. Koditschek	`		
Witnessed by:			
Witness Name (Print)			

Date

This assignment is accepted on behalf of The Trustees of the University of Pennsylvania by:

Date

Jennifer Langenberger

Director, Intellectual Property

ASSIGNMENT

WHEREAS, I, Thomas Turner Topping, a citizen of the United States, residing at 2317 Sumac Circle, Glenview, Illinois, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 3055/47 PCT/US ("the invention"), assigned application number 16/326,320 filed February 18, 2019, which is entitled SYSTEMS AND METHODS FOR CONTROLLING ROBOTIC BEHAVIORS ("the subject application"), and which claims priority to patent application number 62/376,669 filed 8/18/2016 ("the priority application").

AND WHEREAS, The Trustees of the University of Pennsylvania, ASSIGNEE, having a place of business at 3600 Civic Center Blvd, 9th Floor, Philadelphia, Pennsylvania, 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.

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IN TESTIMO	NY WHEREOF, I have:	signed my name below on the dat	e indicated above
my signature. 11/18	/2020		
Executed this	day of	, year of 2020.	
DocuSigned	11 by: 17 2 f DF 5418		
Thomas Turner Topp	ng		
Witnessed by:			
Witness Name (Print)			
Witness Signature		 Date	

This assignment is accepted on behalf of The Trustees of the University of Pennsylvania by:

Date

Docusigned by:

// Jennifer Langenberger

Director, Intellectual Property