

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM648786

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
HI LLC		12/21/2020	Limited Liability Company: DELAWARE
RECEIVING PARTY DATA			
Name:	TRIPLEPOINT PRIVATE VENTURE CREDIT INC.		
Street Address:	2755 Sand Hill Road		
City:	Menlo Park		
State/Country:	CALIFORNIA		
Postal Code:	94025		
Entity Type:	Corporation: MARYLAND		
PROPERTY NUMBERS Total: 12			
Property Type	Number	Word Mark	
Serial Number:	87527613	KERNEL	
Registration Number:	6091561	KERNEL	
Serial Number:	88472864	KERNEL	
Serial Number:	88472862	KERNEL	
Serial Number:	88472866	KERNEL	
Serial Number:	88472868	KERNEL	
Serial Number:	88472870	KERNEL	
Serial Number:	88569817	WHAT ELSE ARE YOU CAPABLE OF?	
Serial Number:	88569820	WHAT ELSE ARE YOU CAPABLE OF?	
Serial Number:	88569829	WHAT ELSE ARE YOU CAPABLE OF?	
Serial Number:	88569833	WHAT ELSE ARE YOU CAPABLE OF?	
Serial Number:	88569835	WHAT ELSE ARE YOU CAPABLE OF?	
CORRESPONDENCE DATA			
Fax Number:			
<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:	6508157636		
Email:	aalwine@mwe.com		
Correspondent Name:	Judy M. Mohr / MCDERMOTT WILL & EMERY		

CH \$315.00 87527613

Address Line 1: 415 Mission Street, Suite 5600
Address Line 4: San Francisco, CALIFORNIA 94105

ATTORNEY DOCKET NUMBER: 082853-0010-HI LLC

NAME OF SUBMITTER: Judy M. Mohr

SIGNATURE: /Judy M. Mohr/

DATE SIGNED: 05/21/2021

Total Attachments: 30

source=HI LLC IP #page1.tif
source=HI LLC IP #page2.tif
source=HI LLC IP #page3.tif
source=HI LLC IP #page4.tif
source=HI LLC IP #page5.tif
source=HI LLC IP #page6.tif
source=HI LLC IP #page7.tif
source=HI LLC IP #page8.tif
source=HI LLC IP #page9.tif
source=HI LLC IP #page10.tif
source=HI LLC IP #page11.tif
source=HI LLC IP #page12.tif
source=HI LLC IP #page13.tif
source=HI LLC IP #page14.tif
source=HI LLC IP #page15.tif
source=HI LLC IP #page16.tif
source=HI LLC IP #page17.tif
source=HI LLC IP #page18.tif
source=HI LLC IP #page19.tif
source=HI LLC IP #page20.tif
source=HI LLC IP #page21.tif
source=HI LLC IP #page22.tif
source=HI LLC IP #page23.tif
source=HI LLC IP #page24.tif
source=HI LLC IP #page25.tif
source=HI LLC IP #page26.tif
source=HI LLC IP #page27.tif
source=HI LLC IP #page28.tif
source=HI LLC IP #page29.tif
source=HI LLC IP #page30.tif



PLAIN ENGLISH INTELLECTUAL PROPERTY SECURITY AGREEMENT

This is a Plain English Intellectual Property Security Agreement dated as of December 21, 2020 by and between TRIPLEPOINT PRIVATE VENTURE CREDIT INC., a Maryland corporation, in its capacity as collateral agent for itself and Lenders (as defined below) and HI LLC, a Delaware limited liability company (the "Agreement").

The words "We", "Us", or "Our", refer to the grantee, which is TRIPLEPOINT PRIVATE VENTURE CREDIT INC. The words "You" or "Your" refers to the grantor, which is HI LLC and not any individual. The words "the Parties" refers to both TRIPLEPOINT PRIVATE VENTURE CREDIT INC. and HI LLC.

Reference is made to the Plain English Growth Capital Loan and Security Agreement (as the same may be amended, restated, supplemented or otherwise modified from time to time, the "Loan Agreement"), dated as of December 21, 2020 by and among, You, KRNL, INC., a Delaware corporation, Collateral Agent and TRIPLEPOINT PRIVATE VENTURE CREDIT INC., a Maryland corporation in its capacity as lender ("TPVC") and TRIPLEPOINT CAPITAL LLC, a Delaware limited liability company, in its capacity as a lender (in such capacity, "TPC"; TPVC and TPC, in their respective capacities as lenders, each a "Lender" and collectively the "Lenders"). Pursuant to the Loan Agreement, You have granted to Us a lien on and a security interest in all the present and future rights, title, and interest that You may now have or hereafter acquire in all Patents, Trademarks, Copyrights, and applications for Patents, Trademarks and Copyrights.

In consideration for the mutual covenants and agreements contained in the Loan Agreement and this Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are acknowledged, the Parties agree as follows:

I. GRANT OF SECURITY INTEREST

You grant to Us a lien upon and continuing security interest in all of Your right, title, and interest in, to and under all of the following (all of the following items of property collectively will be referred to as the "Intellectual Property Collateral"), whether now existing or hereafter arising or acquired:

- ⇒ all Patents, Patent Licenses, and Patent applications, including specifically those listed on the attached **Schedule A**, together with any reissues, divisions, continuations, renewals, extensions and continuations thereof;
- ⇒ all Trademarks, Trademark Licenses, and trademark applications, including specifically those listed on the attached **Schedule B** together with any renewals thereof;
- ⇒ all Copyrights, Copyright Licenses, and applications for Copyrights, including specifically those listed on the attached **Schedule C**;
- ⇒ the right to sue for past, present and future infringements of the foregoing and all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof; and
- ⇒ all Proceeds.

You represent and warrant to Us that Schedules A, B, and C attached hereto set forth any and all intellectual property rights in connection to which You have registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

2. LOAN AGREEMENT

This security interest is granted to secure the Secured Obligations, under the Loan Agreement. All the capitalized terms used but not otherwise defined are used in this Agreement with the same meaning as defined in the Loan Agreement.

IP Security Agreement (HI LLC)

3. OUR RIGHT TO SUE

From and after an Event of Default, subject to the terms of the Loan Agreement, We shall have the right, but shall in no way be obligated, to bring suit in Our own name to enforce Your rights in the Intellectual Property Collateral. If We commence any such suit, You shall, at Our request, do all lawful acts and execute and deliver all proper documents or information that may be necessary or desirable to aid Us in such enforcement. You shall promptly, upon demand, reimburse and indemnify Us for all of Our costs and expenses, including reasonable attorney's fees, related to Our exercise of the above mentioned rights.

4. FURTHER ASSURANCES

You will from time to time execute, deliver and file, alone or with Us, any security agreements, or other documents to perfect and give priority to Our lien on the Intellectual Property Collateral. You will from time to time obtain any instruments or documents as We may request, and take all further action that may be reasonably necessary or desirable, or that We may reasonably request, to carry out more effectively the provisions and purposes of this Agreement or any other related agreements or to confirm, perfect, preserve and protect the liens granted to Us.

5. MODIFICATION

This Agreement can only be altered, amended or modified in a writing signed by the Parties. Notwithstanding the foregoing however, You hereby irrevocably appoint Us (and any of Our designated officers, agents or employees) as Your true and lawful attorney to modify, in Our sole discretion, this Agreement without first obtaining Your approval of or signature to such modification by amending Schedules A, B, and C to this Agreement, as appropriate, to include reference to any right, title or interest in any Intellectual Property Collateral acquired by You before or after the execution hereof or to delete any reference to any right, title or interest in any Intellectual Property Collateral in which You no longer have or claim to have any right, title or interest. The appointment of Us as Your attorney in fact, and each and every one of Our rights and powers, being coupled with an interest, is irrevocable until all of the Secured Obligations have been fully repaid and performed and Our obligation to provide credit extensions to You is terminated.

6. BINDING EFFECT; REMEDIES NOT EXCLUSIVE

This Agreement shall be binding upon You and Your respective successors and assigns, and shall inure to the benefit of Us, and Our nominees and assigns.

Our rights and remedies with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Us as a matter of law or equity. Each of Our rights, powers and remedies provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Us of any one or more of the rights, powers or remedies provided for in this Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Us, of any or all other rights, powers or remedies.

7. GOVERNING LAW; COUNTERPARTS

This Agreement shall be deemed made and accepted in and shall be governed by and construed in accordance with the laws of the State of California, and (where applicable) the laws of the United States of America.

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

(Signature Page to Follow)

IN WITNESS WHEREOF, You have duly executed this Agreement as of the date first set forth above.

You: HI LLC
Signature: Bryan R. Johnson
Print Name: Bryan Johnson
Title: CEO and President

[SIGNATURE PAGE TO PLAIN ENGLISH INTELLECTUAL PROPERTY SECURITY AGREEMENT]

SCHEDULE A

**To Plain English Intellectual Property Security Agreement
Between HI LLC, as You (Grantor)
and TRIPLEPOINT PRIVATE VENTURE CREDIT INC., as Us (Grantee)**

PATENTS AND PATENT APPLICATIONS

(See Attached)

Kernel's Docket Number	Inventors	Technology	Title of Invention	Type of Filing	Filing Date	Serial Number	Publication Date	Publication Number	Issue Date	Patent Number	Kernel's Technology & System Applications	Examined Patent Abstract - Kernel Technology & System Applications
KERN-01010001	Wang, Changhui; Manshassane, Adam; Alford, James; Sobek, James; Weir, David	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	SYSTEMS AND METHODS FOR QUASISIMULTANEOUSLY EFFECTING PHASE-UNMODULATED OPTICAL SIGNALS	Non-Provisional (Track-One)	22-Dec-2013	13/682,208			10-Jul-2015	US 10,618,197(B1)		
KERN-01010002	Do Valle, Bruno; He, Peng; Danko, Ivo; Kishi, Kenichi; Hoshino, Shinji	OPTICAL SPAD Architecture	FAST-GATED PHOTO DETECTOR ARCHITECTURE COMPENSATING DUAL-VOLTAGE SOURCES WITH A SWITCH CONFIGURATION	Non-Provisional (Track-One)	31-Jul-2014	14/051,462			18-Dec-2015	US 10,150,338(B1)	YES	An exemplary photoconductor includes a SPAD and a capacitor. The capacitor is configured to be charged, while the SPAD is in a blinded state, with a bias voltage by a voltage source. The capacitor is further configured to supply, when the SPAD is put in an armed state, the bias voltage to an anode gate of the SPAD such that a voltage across the SPAD is greater than a breakdown voltage of the SPAD.
KERN-01010003	Yang, Changhui; Manshassane, Adam; Alford, James	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	SYSTEMS AND METHODS FOR QUASISIMULTANEOUSLY EFFECTING PHASE-UNMODULATED OPTICAL SIGNALS	Non-Provisional (Track-One)	27-Dec-2013	13/693,538			5-Mar-2015	US 10,219,706(B1)		
KERN-01010004	Yang, Changhui; Manshassane, Adam; Alford, James	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	SYSTEMS AND METHODS FOR QUASISIMULTANEOUSLY EFFECTING PHASE-UNMODULATED OPTICAL SIGNALS	Non-Provisional (Track-One)	28-Jan-2014	14/021,164	5-Jun-2015	US 2015/0060,122(A1)	25-Apr-2015	US 10,265,517(B2)		
KERN-01010005	Yang, Changhui; Manshassane, Adam; Alford, James; Sobek, James	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	SYSTEMS AND METHODS FOR QUASISIMULTANEOUSLY EFFECTING PHASE-UNMODULATED OPTICAL SIGNALS	Non-Provisional	15-Dec-2012	13/644,368	13-May-2013	US 2013/0130,044(A1)	28-May-2013	US 10,283,682(B1)		
KERN-01010006	Yang, Changhui; Manshassane, Adam; Alford, James; Sobek, James; Weir, David	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	SYSTEMS AND METHODS FOR QUASISIMULTANEOUSLY EFFECTING PHASE-UNMODULATED OPTICAL SIGNALS	Non-Provisional (Track-One)	15-Dec-2013	13/644,370	27-May-2015	US 2015/0150,743(A1)	2-Jul-2015	US 10,350,938(B1)	YES	An exemplary non-invasive wearable brain interface system includes a headgear configured to be worn on a head of the user and a plurality of self-contained photoconductor units configured to removably attach to the headgear. The photoconductor units each include a plurality of photoconductor units configured to detect photons of light after the photons reflect from a target within a brain of the user. The brain interface system further includes a master control unit communicatively coupled to each of the photoconductor units by way of a plurality of wires and configured to control the photoconductor units. The master control unit comprises an input device, a processor, and a power source. The master control unit is configured to connect to a power cable that provides power from a power source for the master control unit and the photoconductor units.
KERN-01010007	Alford, James; Manshassane, Adam	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	SYSTEMS AND METHODS TO CORRECT COMPENSATE IMAGES INTO LOCK-IN IMAGES	Non-Provisional (Track-One)	24-Nov-2014	13/988,799			6-Aug-2015	US 10,667,241(B1)		
KERN-01010008	Yang, Changhui; Manshassane, Adam; Alford, James; Sobek, James	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	OPTICAL DETECTION SYSTEM FOR DETERMINING RETINAL ACTIVITY IN BURN-BAGED OR WATER CONCENTRATION	Non-Provisional (Track-One)	15-Dec-2013	13/644,411	23-May-2015	US 2015/0152,545(A1)	24-Sep-2015	US 10,426,666(B1)		
KERN-01010009	Manshassane, Adam; Zhuo, Ruijiong; Shen, Yueheng; Razi, Mehmet	OTHER TECHNOLOGY: DUAL-DIC DUAL-DIC	SPATIAL AND TEMPORAL-BASED DIFFERENCE CORRELATION ELECTROSCOPY SYSTEMS AND METHODS	Non-Provisional (Track-One)	18-Dec-2013	13/621,675			24-Sep-2015	US 10,426,668(B1)		

<p>KEPN-0100-0001</p> <p>Do Valle, Bruno; Ri, Rene; Dable, Jacob; Yamani, Husam</p> <p>OPTICAL SPAD ARCHITECTURE</p> <p>PHOTODIODE COMPENSATING A SINGLE PHOTON AVALANCHE DIODE AND A CAPACITOR</p> <p>Non-Provisional Continuation</p> <p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>
<p>KEPN-0100-0002</p> <p>Field, Ryan; Barakat, Husam; Do Valle, Bruno; Ri, Rene; Dable, Jacob; Yamani, Husam</p> <p>OPTICAL SPAD ARCHITECTURE</p> <p>3D STACKING FOR MEMORY EFFECT REDUCTION, FAST GATING</p> <p>Non-Provisional (Track One)</p> <p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>	<p>14-Nov-2019 US 1067468(B2)</p>
<p>KEPN-0100-0003</p> <p>Anderson, Kristopher; Lee, Andrew; Saratov, John; Kone, Feriel</p> <p>TECHNOLOGY FOR HIGH SPEED, WEIGHTED LINEAR DETERMINATION OF SPAD SIGNALS</p> <p>SYSTEMS AND METHODS TO REDUCE DATA AND COMPLEXITY IN NEURAL NETWORK PROCESSING DATA</p> <p>Non-Provisional (Track One)</p> <p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>	<p>15-Jan-2019 US 1067468(B2)</p>
<p>KEPN-0100-0004</p> <p>Alford, James; Jimenez-Martinez, Ricardo</p> <p>TECHNOLOGY FOR HIGH SPEED, WEIGHTED LINEAR DETERMINATION OF SPAD SIGNALS</p> <p>SYSTEMS AND METHODS INCLUDING WRITE INDEX OPERATOR OF OPTICALLY PUMPED MAGNETOMETERS</p> <p>Non-Provisional (Track One)</p> <p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>	<p>7-Dec-2018 US 1067468(B2)</p>
<p>KEPN-0100-0005</p> <p>Barakat, Husam; Field, Ryan; Do Valle, Bruno; Ri, Rene; Dable, Jacob; Yamani, Husam</p> <p>OPTICAL SPAD ARCHITECTURE</p> <p>NON-INVASIVE REVERSIBLE PHOTODIODE COMPENSATING A SINGLE PHOTON AVALANCHE DIODE AND A CAPACITOR</p> <p>Non-Provisional Continuation</p> <p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>
<p>KEPN-0100-0006</p> <p>Do Valle, Bruno; Ri, Rene; Dable, Jacob; Yamani, Husam</p> <p>OPTICAL SPAD ARCHITECTURE</p> <p>PHOTODIODE COMPENSATING A SINGLE PHOTON AVALANCHE DIODE AND A CAPACITOR</p> <p>Non-Provisional Continuation</p> <p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>	<p>24-Sep-2019 US 1067468(B2)</p>

KERN-0251560	Mohamed, Hussein Photographers, LLC	MES: magnetic shielding and beamforming using ferrofluid for compact magnetencephalography (MEG)	Non-Provisional	28-Jun-2021 US 2021/015446 A1	28-Jun-2021 US 2021/015446 A1		YES
KERN-0251561	Greek, David Photographers, LLC	MES: Chemistry (processing of) electrical signals using atomic magnetic fields in logic logic	Non-Provisional	21-Sep-2021 US 2021/016777 A1	9-Mar-2022 US 2022/016948 A1		YES
KERN-0251562	Ridd, Ryan; Kistner, Brian; Liu, Hong; Dohle, Jacob	OPTICAL: SPAD based tracking for memory effect modulation, for 3D printing	PCT	22-Feb-2021 PCT/US19/29317	23-Nov-2021 WO 2019/231798 A1		YES
KERN-0251563	Field, Roger; Kistner, Brian; Du, Yishi; Prong, Joe; Rong, Jiahua; Jacob, David	OPTICAL: SPAD based tracking for memory effect modulation, for 3D printing	Non-Provisional	16-Aug-2021 US 2021/016744 A1	11-Oct-2021 US 2021/017062 A1		YES
KERN-0251564	Walters, Herman	OTHER: DETECTION OF FAST-NEURON SIGNAL USING BREATH-RESOLVED SPECTROSCOPY	Non-Provisional	9-Sep-2021 US 2021/016813 A1	16-Apr-2022 US 2022/013494 A1		
KERN-0251565	Shanmugan, Srikanth; Sankaranarayanan, Venkatesh	MES: chemistry (analysis of) neural activity using electroencephalogram (EEG) and magnetoencephalogram (MEG)	Non-Provisional	17-Apr-2021 US 2021/016713 A1	23-Apr-2021 US 2021/017245 A1		YES
KERN-0251566	Sukanta, Souvik; Chakrabarti, Anirban; Sankaranarayanan, Venkatesh	MES: chemistry (analysis of) neural activity using electroencephalogram (EEG) and magnetoencephalogram (MEG)	Non-Provisional	8-Nov-2020 US 2020/029944 A1	18-Jun-2021 US 2021/019082 A1		YES
KERN-0251567	Jain, Anoop; Bharti, Anand; Purohit, Pooja	OTHER: SYSTEMS FOR MONITORING AND DETECTION OF NEURAL STATE USING A NON-INVASIVE BRAIN INTERFACE SYSTEM AND METHOD	PCT	25-Mar-2021 PCT/US19/29027	28-Jun-2021 WO 2020/231444 A1		YES
KERN-0251568	Sankaranarayanan, Venkatesh; Purohit, Pooja	OTHER: SYSTEMS FOR MONITORING AND DETECTION OF NEURAL STATE USING A NON-INVASIVE BRAIN INTERFACE SYSTEM AND METHOD	Non-Provisional (Track One)	25-Mar-2021 US 2021/016843 A1	23-Jul-2021 US 2021/020657 A1		YES
KERN-0251569	Wang, Jintao	MES: Amplitude modulation based magnetic field measurement system with amplitude selective magnetic shield	Non-Provisional	13-Jan-2021 US 2021/015741 A1	30-Jun-2021 US 2021/021094 A1		YES
KERN-0251570	Gallagher, Mark; Arbabizadeh, Amir; Purohit, Pooja; Winters, Brian	MES: neural feedback loop for magnetencephalography (MEG) systems and methods	PCT	14-Jan-2021 PCT/US19/29075	20-Apr-2021 WO 2021/014440 A1		YES
KERN-0251571	Walters, Herman; Kistner, Brian; Prong, Joe; Rong, Jiahua; Jacob, David	MES: neural feedback loop for magnetencephalography (MEG) systems and methods	Non-Provisional (Track One)	14-Jan-2021 US 2021/015742 A1	13-Aug-2021 US 2021/020658 A1		YES
KERN-0251572	Walters, Herman; Kistner, Brian; Prong, Joe; Rong, Jiahua; Jacob, David	OTHER: SYSTEMS FOR DETECTING AND MITIGATING NEURAL STATE USING DIGITAL RECTIFICATION AND INTEGRATION	Non-Provisional	7-Apr-2021 US 2021/016745 A1	21-Oct-2021 US 2021/021323 A1		YES
KERN-0251573	Walters, Herman; Kistner, Brian; Prong, Joe; Rong, Jiahua; Jacob, David	OTHER: SYSTEMS FOR DETECTING AND MITIGATING NEURAL STATE USING DIGITAL RECTIFICATION AND INTEGRATION	Non-Provisional	7-Apr-2021 US 2021/016746 A1	22-Oct-2021 US 2021/021324 A1		YES
KERN-0251574	Ruan, Haowen; Walters, Herman	OTHER: NON-INVASIVE OPTICAL DETECTION SYSTEM AND METHOD USING PARTIALLY BALANCED INTERFEROMETRIC PARALLEL DETECTION	Non-Provisional	7-Apr-2021 US 2021/016747 A1	23-Oct-2021 US 2021/021325 A1		YES

KERN-001902	Shapiro, Benjamin, Benjamin, Gregory, Richard, Michael, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	5-Jun-2020	63/035,883	YES					
KERN-001903	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	5-Jun-2020	63/035,883	YES					
KERN-001904	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	21-Feb-2020	63/079,352	YES					
KERN-001905	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	24-Feb-2020	63/080,406	YES					
KERN-001906	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	18-Mar-2020	63/087,313	YES					
KERN-001907	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	21-Jun-2020	63/094,236	YES					
KERN-001908	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	9-Sep-2020	63/097,191	YES					
KERN-001909	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	23-Jul-2020	63/101,089	YES					
KERN-001910	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	12-Jun-2020	63/098,805	YES					
KERN-001911	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	18-Jun-2020	63/099,713	YES					
KERN-001912	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	11-Aug-2020	63/096,249	YES					
KERN-001913	Shapiro, Benjamin, Benjamin, Gregory, Richard, Louis, Michael, John	MEG. CONTROL SYSTEMS AND METHODS THAT EXPLOIT MAXWELL'S EQUATIONS AND GEOMETRY TO REDUCE NOISE FOR ULTRA-FINE MEASUREMENTS OF MAGNETIC FIELDS FROM THE BRAIN USING A REMOTE, ACTIVE SHIELDING	Provisional	28-Jun-2020	63/087,478	YES					

KERN-006PR02	Optical Measurement Window Calibration for System	Phase Lock Loop Circuit Based Adjustment of a Measurement Time Window in an Optical Measurement System	Provisional	15-May-2020	63,602,7138	YES
KERN-007PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	16-Jun-2020	63,644,323	YES
KERN-008PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	16-Jun-2020	63,655,382	YES
KERN-009PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	19-May-2020	63,667,525	YES
KERN-100PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	23-Jul-2020	63,705,1480	YES
KERN-101PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	13-Sep-2020	63,665,1,063	YES
KERN-102PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	16-Jul-2020	63,602,8,809	YES
KERN-103PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	27-Jul-2020	63,651,077	YES
KERN-104PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	4-Sep-2020	63,674,721	YES
KERN-105PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	15-Aug-2020	63,632,123	YES
KERN-106PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	25-Aug-2020	63,671,123	YES
KERN-107PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	23-Sep-2020	63,681,134	YES
KERN-108PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	3-Oct-2020	63,686,362	YES
KERN-109PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	13-Jun-2020	63,688,453	YES
KERN-110PR02	Optical Measurement Window Calibration for System	Techniques for Determining a Time Window in an Optical Measurement System	Provisional	22-Jun-2020	63,688,468	YES

KEYN-112P001	Optical Laser Beam Source Assembly with Laser Coupling for a Wearable Optical Measurement System	OPTICAL: Integrated light source assembly with laser	Provisional	12-Jun-2020/03/02/18-961	YES				
KEYN-112P002	Removal of Noise from Histogram Data	OPTICAL: Removal of noise from histogram data	Provisional	6-Sep-2020/03/06/3-349	YES				
KEYN-112P003	Noninvasive Measurement Systems and Methods	OPTICAL: Noninvasive measurement systems and methods	Provisional	18-Sep-2020/03/07/19-194	YES				
KEYN-112P004	Image Domain Based Optical Measurement Systems and Methods Configured to Measure Absorbance Properties of Tissue	OPTICAL: Image domain based optical measurement systems and methods configured to measure absorbance properties of tissue	Provisional	12-Aug-2020/03/08/4-698	YES				
KEYN-112P005	Systems and Methods for Testing the Presence of and Removing Random Matrix Noise Spectra in Neural Signals	OPTICAL: Systems and methods for testing the presence of and removing random matrix noise spectra in neural signals	Provisional	26-Apr-2020/03/09/15-012	YES				
KEYN-112P006	Systems and Methods for Reducing Random Matrix Noise in Spectral Frequency Resolved Histogram Data	OPTICAL: Systems and methods for reducing random matrix noise in spectral frequency resolved histogram data	Provisional	31-Mar-2020/03/09/2-238	YES				
KEYN-121P001	Compression and Decompression for Parameter Recovery and Image Reconstruction	OPTICAL: Compression and decompression for parameter recovery and image reconstruction	Provisional	25-May-2020/03/10/19-999	YES				
KEYN-121P002	Flow System State and Methods for Neural Laser Measurement	OPTICAL: Flow system state and methods for neural laser measurement	Provisional	5-Sep-2020/03/07/6-215	YES				
KEYN-122P001	Optical Module Assembly with Alignment Mounting Components as Used in a Variety of Headgear Arrangements	OPTICAL: Optical module assembly with alignment mounting components as used in a variety of headgear arrangements	Provisional	30-Jul-2020/03/08-118	YES				
KEYN-133P001	Flow Rate and Motion Tracking	MECH: Flow rate and motion tracking	Provisional	10-Sep-2020/03/07/6-180	YES				
KEYN-133P002	Applications: Morality & Business Engine Used to Mitigate Harbored Artificial Intelligence Actions	MECH: Applications: Morality & Business Engine used to mitigate harbored artificial intelligence actions	Provisional	13-Sep-2020/03/07/2-277	YES				
KEYN-137P001	Optical Matrix	OPTICAL: Optical matrix	Provisional	18-Sep-2020/03/06/3-349	YES				
KEYN-138P001	Flow System Recording Cardiac Activity	MECH: Flow system recording cardiac activity	Provisional	8-Oct-2020/03/08/5-555	YES				

SCHEDULE B

**To Plain English Intellectual Property Security Agreement
Between HI LLC, as You (Grantor)
and TRIPLEPOINT PRIVATE VENTURE CREDIT INC., as Us (Grantee)**

TRADEMARKS AND TRADEMARK APPLICATIONS

(See Attached)

Docket Number	Mark Title	Country	Application Date	Application No./Class Code	Class Category - Short Title	Class Description	Registration Date	Registration No.
KERNEL-2017-US-01	KERNEL	United States	13-Jul-2017	87527613/Class 10	Medical apparatus	Medical devices, namely, implantable neuroprosthetics; neurophysiological implants made from artificial materials; medical implants; implantable units; featuring artificial intelligence technology for neurophysiology assessment; implantable computer hardware, namely, microchips for managing and treating neurodegenerative disease and dysfunction	Pending	6091561
KERNEL-2017-US-02	KERNEL	United States	13-Jul-2017	87527613/Class 42	Services	Computer and scientific services	30-Jun-2020	6091561
KERNEL-2017-US-01	KERNEL	United States	13-Jul-2017	87527613/Class 44	Services	Medical services	Pending	
KERNEL-2018-AU-01	KERNEL	Australia (via Madrid Protocol)	10-Jan-2018	1927417/Class 09	Goods	Electrical and scientific apparatus	19-Feb-2020	1402611
KERNEL-2018-AU-01	KERNEL	Australia (via Madrid Protocol)	10-Jan-2018	1927417/Class 10	Goods	Medical apparatus	19-Feb-2020	1402611
KERNEL-2018-AU-01	KERNEL	Australia (via Madrid Protocol)	10-Jan-2018	1927417/Class 42	Services	Computer and scientific services	19-Feb-2020	1402611
KERNEL-2018-AU-01	KERNEL	Australia (via Madrid Protocol)	10-Jan-2018	1927417/Class 44	Services	Medical services	19-Feb-2020	1402611

KERNEL-2018-CA-01	Canada	11-Jan-2018	1877912 / Class 42	Services	Computer and scientific apparatus	Medical devices, namely, sensor systems for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems for recording and processing brain activity and mental states from human and animal subjects. (1) Medical devices, namely, sensor systems comprising a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in performing scientific research for screening and diagnosing neurological conditions (2) Medical devices, namely, sensor systems comprising a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for screening, recording, and processing brain activity data and mental states from human subjects Research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior theory; development and design of computer software for others; scientific research for medical purposes in the field of artificial intelligence; Technology consultation and research in the field of artificial intelligence; Technology research in the field of artificial intelligence; Advanced product research, namely, product development services, product design consulting services, and research and development of new products for others in the field of artificial intelligence; Consultation services in the field of neuroscience research, neural engineering; product research and development consultation in the field of neuroprosthetics	Pending	
KERNEL-2018-CA-01	Canada	11-Jan-2018	1877912 / Class 42	Services	Computer and scientific apparatus	Medical devices, namely, sensor systems for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems for recording and processing brain activity and mental states from human and animal subjects. (1) Medical devices, namely, sensor systems comprising a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in performing scientific research for screening and diagnosing neurological conditions (2) Medical devices, namely, sensor systems comprising a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for screening, recording, and processing brain activity data and mental states from human subjects Research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior theory; development and design of computer software for others; scientific research for medical purposes in the field of artificial intelligence; Technology consultation and research in the field of artificial intelligence; Technology research in the field of artificial intelligence; Advanced product research, namely, product development services, product design consulting services, and research and development of new products for others in the field of artificial intelligence; Consultation services in the field of neuroscience research, neural engineering; product research and development consultation in the field of neuroprosthetics	Pending	
KERNEL-2018-CA-01	Canada	11-Jan-2018	1877912 / Class 44	Services	Medical Services	Medical rehabilitation services for in the field of neurology; providing neurological rehabilitation services; Medical evaluation of neurological condition and neurological disease; Medical testing for diagnosis or treatment purposes; Medical testing for diagnostic or treatment purposes in the field of neurology; Medical diagnostic services, namely, testing, monitoring and reporting services; Medical and healthcare services, namely, providing medical and healthcare information and medical and healthcare advice in the field of neurology (3) medical and healthcare services, namely, providing medical and healthcare advice and information in the field of diagnosis and treatment of neurological conditions and cognitive behavior therapy	Pending	
KERNEL-2018-CN-01	China	10-Jun-2018	3307688 / Class 42	Services	Computer and scientific apparatus	Computer hardware, namely, microchips for controlling and synchronizing human brain functionality	3-22-2018-2018 19-Oct-2018	1402611
KERNEL-2018-EP-02	European Union (via Madrid Protocol)	10-Jan-2018	372745 / 1402611 / Class 10	Goods	Medical apparatus	Medical devices for use in treating or diagnosing neurological conditions; Medical devices, namely, implantable neuroprosthetics; Neurophysiological implants made from artificial materials; Medical devices and implants, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems, electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; Implantable circuits featuring artificial intelligence technology for neurophysiology assessment; Implantable computer hardware, namely, microchips for managing and treating neurodegenerative disease and dysfunction	19-Oct-2018	1402611
KERNEL-2018-EP-01	European Union (via Madrid Protocol)	10-Jan-2018	372745 / 1402611 / Class 42	Services	Computer and scientific apparatus	Scientific research; Research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior theory; development and design of computer software for others; scientific research for medical purposes in the field of artificial intelligence; Technology consultation and research in the field of artificial intelligence; Technology research in the field of artificial intelligence; Advanced product research in the field of artificial intelligence; Consultation services in the field of neuroscience research, neural engineering; product research and development consultation in the field of neuroprosthetics	19-Oct-2018	1402611

KERNEL-2018-EP-01	KERNEL	European Union (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 04	Services	Medical Services	Medical services; medical rehabilitation services for in the field of neurology; providing neurological rehabilitation services; Medical evaluation of neurological condition or neurological disease; Medical testing for diagnosis or treatment purposes; Medical testing for diagnosis or treatment purposes in the field of neurology; Medical diagnosis; testing, monitoring and reporting services; Medical and healthcare services; namely, providing medical and healthcare information, and medical and healthcare advice	19-Oct-2018	1402611
KERNEL-2018-IN-01	KERNEL	India (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 09	Goods	Electrical and scientific apparatus	Computer hardware, namely, microchips for controlling and managing neural activity; brain connectivity	3-Aug-2018	1402611
KERNEL-2018-IN-01	KERNEL	India (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 10	Goods	Medical apparatus	Medical devices for use in treating or diagnosing neurological conditions; medical devices, namely, implantable neuroprosthetics; neurophysiological implants made from artificial materials; medical devices and implants, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems; electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; implantable circuits featuring artificial intelligence technology for neurophysiology assessment; implantable computer hardware, namely, microchips for managing and treating neurodegenerative disease and dysfunction	3-Aug-2018	1402611
KERNEL-2018-RW-01	KERNEL	India (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 42	Services	Computer and scientific services	Scientific research; research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior therapy; scientific research for medical purposes in the field of artificial intelligence; technology consultation and research in the field of artificial intelligence; technology research in the field of artificial intelligence; advanced product research in the field of artificial intelligence; consultation services in the field of neuroscience research; neural engineering; product research and development consultation in the field of neuroprosthetics	3-Aug-2018	1402611
KERNEL-2018-IN-01	KERNEL	India (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 04	Services	Medical Services	Medical services; medical rehabilitation services in the field of neurology; providing neurological rehabilitation services; medical evaluation of neurological condition or neurological disease; medical testing for diagnosis or treatment purposes; medical testing for diagnosis or treatment purposes in the field of neurology; Medical diagnosis; testing, monitoring and reporting services; Medical and healthcare services; namely, providing medical and healthcare information, and medical and healthcare advice	3-Aug-2018	1402611
KERNEL-2018-JP-01	KERNEL	Japan (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 08	Goods	Electrical and scientific apparatus	Computer hardware, namely, microchips for controlling and enhancing human brain functionality	Pending	
KERNEL-2018-JP-01	KERNEL	Japan (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 10	Goods	Medical apparatus	Medical devices for use in treating or diagnosing neurological conditions; medical devices, namely, implantable neuroprosthetics; neurophysiological implants made from artificial materials; Medical devices and implants, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems; electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; implantable circuits featuring artificial intelligence technology for neurophysiology assessment; implantable computer hardware, namely, microchips for managing and treating neurodegenerative disease and dysfunction	Pending	

KERNEL-2018-48-01	KERNEL	Japan (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 42	Services	Computer and scientific services	Scientific research; Research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior therapy; development and design of computer software for others; scientific research for medical purposes in the field of artificial intelligence; Technology consultation and research in the field of artificial intelligence; Technology research in the field of artificial intelligence; Advanced product research in the field of artificial intelligence; Consultation services in the field of neuroscience research, neural engineering; product research and development consultation in the field of neuroprosthetics	Pending	1402611
KERNEL-2018-48-02	KERNEL	Japan (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 44	Services	Medical Services	Medical services; medical rehabilitation services in the field of neurology; providing neurological rehabilitation services; Medical evaluation of neurological condition or neurological disease; Medical testing for diagnosis or treatment purposes; Medical testing for diagnosis or treatment purposes in the field of neurology; Medical diagnostic testing; monitoring and reporting services; Medical and healthcare services, namely, providing medical and healthcare information, and medical and healthcare advice	Pending	1402611
KERNEL-2018-48-03	KERNEL	South Korea (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 09	Goods	Electrical and scientific apparatus	Computer hardware, namely, microchips for controlling and enhancing human brain functionality	14-Aug-2019	1402611
KERNEL-2018-48-04	KERNEL	South Korea (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 10	Goods	Medical apparatus	Medical devices for use in treating or diagnosing neurological conditions; medical devices, namely, implantable neuroprosthetics; neurophysiological implants; made from artificial materials; medical devices and implants, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems; electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; implantable circuits featuring artificial intelligence technology for neurophysiology assessment; implantable computer hardware, namely, microchips for managing and treating neurodegenerative disease and dysfunction	14-Aug-2019	1402611
KERNEL-2018-48-05	KERNEL	South Korea (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 42	Services	Computer and scientific services	Scientific research; research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior therapy; scientific research for medical purposes in the field of artificial intelligence; technology consultation and research in the field of artificial intelligence; technology research in the field of artificial intelligence; advanced product research in the field of artificial intelligence; consultation services in the field of neuroscience research, neural engineering; product research and development consultation in the field of neuroprosthetics	14-Aug-2019	1402611
KERNEL-2018-48-06	KERNEL	South Korea (via Madrid Protocol)	10-Jan-2018/27245 / 1402611/Class 44	Services	Medical Services	Medical services; medical rehabilitation services in the field of neurology; providing neurological rehabilitation services; medical evaluation of neurological condition or neurological disease; medical testing for diagnosis or treatment purposes; medical testing for diagnosis or treatment purposes in the field of neurology; medical diagnostic testing; monitoring and reporting services; medical and healthcare services, namely, providing medical and healthcare information, and medical and healthcare advice	14-Aug-2019	1402611
KERNEL-2018-48-07	KERNEL	Madrid Protocol (Designated Jurisdictions: Australia, European Union, India, Japan, Korea, South Korea, Switzerland)	10-Jan-2018/27245 / 1402611/Class 09	Goods	Electrical and scientific apparatus	Computer hardware, namely, microchips for controlling and enhancing human brain functionality	17-May-2018	1402611

KERNEL-2018-MP-01	KERNEL	Madrid Protocol [Designated Jurisdictions: Australia, European Union, India, Japan, Norway, South Korea, Switzerland]	10-Jan-2018	1402611 Class 30	Goods	Medical apparatus	Medical devices for use in treating or diagnosing neurological conditions; medical devices, namely, implantable neuroprosthetics; neurophysiological implants made from artificial, inorganic; medical devices and implants, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems; electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; implantable circuits featuring artificial intelligence technology for neurophysiology assessment; implantable computer hardware, namely, microchips for imaging and treating neurodegenerative disease and reconstruction	17-May-2018	1402611
KERNEL-2018-MP-01	KERNEL	Madrid Protocol [Designated Jurisdictions: Australia, European Union, India, Japan, Norway, South Korea, Switzerland]	10-Jan-2018	1402611 Class 42	Services	Computer and scientific research	Scientific research; research and development of new technological and scientific products; treatments and techniques for others in the fields of neurology and cognitive behavior therapy; scientific research for medical purposes in the field of artificial intelligence; technology consultation and research in the field of artificial intelligence; technology research in the field of artificial intelligence; advanced product research in the field of artificial intelligence; consultation services in the field of neuroscience research; neural engineering; product research and development consultation in the field of neuroprosthetics	17-May-2018	1402611
KERNEL-2018-MP-01	KERNEL	Madrid Protocol [Designated Jurisdictions: Australia, European Union, India, Japan, Norway, South Korea, Switzerland]	10-Jan-2018	1402611 Class 44	Services	Medical Services	Neurology; providing neurological rehabilitation services; medical evaluation of neurological condition or neurological disease; medical testing for diagnostic or treatment purposes; medical testing for diagnostic or treatment purposes in the field of neurology; medical diagnosis or treatment purposes in the field of neurology; medical diagnostic testing, monitoring and reporting services; medical and healthcare services, namely, providing medical and healthcare information, and medical and healthcare advice	17-May-2018	1402611
KERNEL-2018-MP-01	KERNEL	Norway [via Madrid Protocol]	10-Jan-2018/272745 / 1402611	Class 10	Goods	Medical apparatus	Medical devices for use in treating or diagnosing neurological conditions; Medical devices and implants, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems; electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; none of the foregoing concerning operating system software	27-Sep-2018	1402611
KERNEL-2018-MP-01	KERNEL	Norway [via Madrid Protocol]	10-Jan-2018/272745 / 1402611	Class 42	Services	Computer and scientific research	Scientific research; Research and development of new technological and scientific products; treatments and techniques for others in the fields of neurology and cognitive behavior therapy; Consultation services in the field of neuroscience research; Neural engineering; product research and development consultation in the field of neuroprosthetics; none of the foregoing concerning operating system software	27-Sep-2018	1402611
KERNEL-2018-MP-01	KERNEL	Norway [via Madrid Protocol]	10-Jan-2018/272745 / 1402611	Class 44	Services	Medical Services	Neurology; providing neurological rehabilitation services; medical evaluation of neurological condition or neurological disease; medical testing for diagnostic or treatment purposes; medical testing for diagnostic or treatment purposes in the field of neurology; medical diagnosis or treatment purposes in the field of neurology; medical diagnostic testing, monitoring and reporting services; medical and healthcare services, namely, providing medical and healthcare information, and medical and healthcare advice	27-Sep-2018	1402611
KERNEL-2018-MP-01	KERNEL	Switzerland [via Madrid Protocol]	10-Jan-2018/272745 / 1402611	Class 09	Goods	Electrical and scientific apparatus	Computer hardware, namely, microchips for controlling and enhancing human brain functionality	28-Apr-2019	1402611

KERNEL-2018-SW-01	KERNEL	Switzerland (via Madrid Protocol)	10-Jan-2018/272745 / 1402611 Class 10	Goods	Medical apparatus	Medical devices for use in treating or diagnosing neurological conditions; Medical devices, namely, implantable neuroprosthetics; Neurophysiological implants made from artificial materials; Medical devices and implants, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems; electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; implantable circuits featuring artificial intelligence technology for neurophysiology assessment; implantable computer hardware, namely, microchips for managing and treating neurodegenerative disease and dysfunction	28-Apr-2019	1402611
KERNEL-2018-SW-02	KERNEL	Switzerland (via Madrid Protocol)	10-Jan-2018/272745 / 1402611 Class 42	Services	Computer and scientific services	Scientific research; Research and development of new technological and scientific products, treatments and techniques for others in the field of neurology and cognitive behavior therapy; development and design of computer software for others; Scientific research for medical purposes in the field of artificial intelligence; Technology consultation and research in the field of artificial intelligence; Technology research in the field of artificial intelligence; Advanced product research in the field of artificial intelligence; Consultation services in the field of neuroscience research; neural engineering; product research and development consultation in the field of neuroprosthetics	28-Apr-2019	1402611
KERNEL-2018-SW-03	KERNEL	Switzerland (via Madrid Protocol)	10-Jan-2018/272745 / 1402611 Class 44	Services	Medical Services	Medical services; medical rehabilitation services for the field of neurology; Providing neurological rehabilitation services; Medical evaluation of neurological condition or neurological disease; Medical testing for diagnostic or treatment purposes; Medical testing for diagnosis or treatment purposes in the field of neurology; Medical diagnostic testing, monitoring and reporting services; Medical and healthcare services, namely, providing medical and healthcare information, and medical and healthcare advice	28-Apr-2019	1402611
KERNEL-2019-AU-02	KERNEL	Australia (via Madrid Protocol)	13-Dec-2019 / 1519462 Class 09	Goods	Electrical and scientific apparatus	Sensor system comprised of a wearable modular sensing unit, namely, feedback sensors, optical sensors, and magnetic sensors and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, feedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and recorded and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	13-Oct-2020	1519462
KERNEL-2019-AU-02	KERNEL	Australia (via Madrid Protocol)	13-Dec-2019 / 1519462 Class 10	Goods	Medical apparatus	Medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, feedback sensors, optical sensors, magnetic sensors, and computer hardware for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, feedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	13-Oct-2020	1519462
KERNEL-2019-AU-02	KERNEL	Australia (via Madrid Protocol)	13-Dec-2019 / 1519462 Class 35	Services	Advertising and business services	Online processing services, namely, processing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	13-Oct-2020	1519462
KERNEL-2019-AU-02	KERNEL	Australia (via Madrid Protocol)	13-Dec-2019 / 1519462 Class 42	Services	Computer and scientific services	Providing temporary use of online non-deterministic software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical; research/evaluation of neurological conditions or neurological diseases for drug development purposes	13-Oct-2020	1519462

KERNEL-2019-CA-02	KERNEL	Canada (via Madrid Protocol)	13-Dec-2019	3016984; Class 09	Goods	Electrical and scientific apparatus	namely, biofeedback sensors, optical sensors, and magnetic sensors and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and second and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-CA-02	KERNEL	Canada (via Madrid Protocol)	13-Dec-2019	3016984; Class 10	Goods	Medical apparatus	Medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	Pending
KERNEL-2019-CA-02	KERNEL	Canada (via Madrid Protocol)	13-Dec-2019	2016984; Class 35	Services	Advertising and business services	sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-CA-02	KERNEL	Canada (via Madrid Protocol)	13-Dec-2019	3016984; Class 32	Services	Computer and scientific services	Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical research evaluation of neurological conditions or neurological diseases for drug development purposes	Pending
KERNEL-2019-CN-02	KERNEL	China (refile)	28-Oct-2019	41907986; Class 42	Services	Computer and scientific services	Scientific research; Research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior therapy; development and design of computer software for others; Scientific research for medical purposes in the field of artificial intelligence; Technology consultation and research in the field of artificial intelligence; Technology research in the field of artificial intelligence; Advanced product research in the field of artificial intelligence; Consultation services in the field of neuroscience research, neural engineering, product research and development consultation in the field of neuroscientific	Pending
KERNEL-2019-CN-02	KERNEL	China	28-Nov-2019	42862129; Class 09	Goods	Electrical and scientific apparatus	sensor system for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states, consisting of a wearable modular sensing unit and supporting modular electronics for data processing, signal processing, and connectivity; sensor system, namely, modular electronic devices for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; computer software and mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-CN-02	KERNEL	China	28-Nov-2019	42862128; Class 10	Goods	Medical apparatus	Medical devices, namely, sensor systems for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems for recording and processing brain activity and mental states from human and animal subjects	Pending
KERNEL-2019-CN-02	KERNEL	China	28-Nov-2019	42862127; Class 35	Services	Advertising and business services	data processing services, namely, processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-CN-02	KERNEL	China	28-Dec-2019	42862126; Class 42	Services	Computer and scientific services	Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending

KERNEL-2019-IP-02	KERNEL	India (via Madrid Protocol)	13-Dec-2019	1519482/Class 42	Services	Computer and scientific services	Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical research evaluation of neurological conditions or neurological diseases for drug development purposes	Pending
KERNEL-2019-IP-02	KERNEL	Japan (via Madrid Protocol)	13-Dec-2019	1519482/Class 09	Goods	Electrical and scientific apparatus	Sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, and magnetic sensors and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and recorded and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-IP-02	KERNEL	Japan (via Madrid Protocol)	13-Dec-2019	1519482/Class 33	Goods	Medical apparatuses	Medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	Pending
KERNEL-2019-IP-02	KERNEL	Japan (via Madrid Protocol)	13-Dec-2019	1519482/Class 35	Services	Advertising and business services	Data processing services, namely, processing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-IP-02	KERNEL	Japan (via Madrid Protocol)	13-Dec-2019	1519482/Class 42	Services	Computer and scientific services	Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical research evaluation of neurological conditions or neurological diseases for drug development purposes	Pending
KERNEL-2019-IP-02	KERNEL	South Korea (via Madrid Protocol)	13-Dec-2019	1519482/Class 09	Goods	Electrical and scientific apparatuses	Sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, and magnetic sensors and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and recorded and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-IP-02	KERNEL	South Korea (via Madrid Protocol)	13-Dec-2019	1519482/Class 33	Goods	Medical apparatuses	Medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	Pending
KERNEL-2019-IP-02	KERNEL	South Korea (via Madrid Protocol)	13-Dec-2019	1519482/Class 35	Services	Advertising and business services	Data processing services, namely, processing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending
KERNEL-2019-IP-02	KERNEL	South Korea (via Madrid Protocol)	13-Dec-2019	1519482/Class 42	Services	Computer and scientific services	Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical research evaluation of neurological conditions or neurological diseases for drug development purposes	Pending

KERNEL-2019-9P-02	KERNEL	Madrid Protocol (Designated Jurisdictions: Australia, Canada, European Union, India, Japan, Norway, South Korea, Switzerland)	13-Dec-2019	1519482/Class 09	Goods	Electrical and scientific apparatus	Sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, and magnetic sensors; and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	12-Mar-2020	1519482
KERNEL-2019-10P-02	KERNEL	Madrid Protocol (Designated Jurisdictions: Australia, Canada, European Union, India, Japan, Norway, South Korea, Switzerland)	13-Dec-2019	1519482/Class 10	Goods	Medical apparatus	Medical device, namely, sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in processing and managing neurological conditions; medical device, namely, sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	12-Mar-2020	1519482
KERNEL-2019-8P-02	KERNEL	Madrid Protocol (Designated Jurisdictions: Australia, Canada, European Union, India, Japan, Norway, South Korea, Switzerland)	13-Dec-2019	1519482/Class 35	Services	Advertising and business services	Data processing services, namely, processing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	12-Mar-2020	1519482
KERNEL-2019-9P-02	KERNEL	Madrid Protocol (Designated Jurisdictions: Australia, Canada, European Union, India, Japan, Norway, South Korea, Switzerland)	13-Dec-2019	1519482/Class 42	Services	Computer and scientific services	Providing temporary use of software downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical research evaluation of neurological conditions or neurological diseases for drug development	12-Mar-2020	1519482
KERNEL-2019-10P-02	KERNEL	Madrid Protocol (Designated Jurisdictions: Australia, Canada, European Union, India, Japan, Norway, South Korea, Switzerland)	13-Dec-2019	1519482/Class 09	Goods	Electrical and scientific apparatus	Sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, and magnetic sensors; and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending	
KERNEL-2019-10P-02	KERNEL	Norway (via Madrid Protocol)	13-Dec-2019	1519482/Class 10	Goods	Medical apparatus	Medical device, namely, sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in processing and managing neurological conditions; medical device, namely, sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	Pending	
KERNEL-2019-10P-02	KERNEL	Norway (via Madrid Protocol)	13-Dec-2019	1519482/Class 35	Services	Advertising and business services	Data processing services, namely, processing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending	
KERNEL-2019-10P-02	KERNEL	Norway (via Madrid Protocol)	13-Dec-2019	1519482/Class 42	Services	Computer and scientific services	Providing temporary use of software downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical research evaluation of neurological conditions or neurological diseases for drug development purposes	Pending	

KERNEL-2019-SW-02	KERNEL	Switzerland (via Madrid Protocol)	13-Dec-2019	1519482/Class 09	Goods	Electrical and scientific apparatus	namely, biofeedback sensors, optical sensors, and magnetic sensors and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and recorded and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending	
KERNEL-2019-SW-02	KERNEL	Switzerland (via Madrid Protocol)	13-Dec-2019	1519482/Class 10	Goods	Medical apparatus	Medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	Pending	
KERNEL-2019-SW-02	KERNEL	Switzerland (via Madrid Protocol)	13-Dec-2019	1519482/Class 35	Services	Advertising and business services	sensor system that measures, tracks or monitors brain activity and mental states	Pending	
KERNEL-2019-SW-02	KERNEL	Switzerland (via Madrid Protocol)	13-Dec-2019	1519482/Class 42	Services	Computer and scientific services	Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states; medical research evaluation of neurological conditions or neurological diseases for drug development purposes	Pending	
KERNEL-2019-US-02	KERNEL	United States	13-Jun-2019	88472864/Class 09	Goods	Electrical and scientific apparatus	Sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, and magnetic sensors and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and recorded and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending	
KERNEL-2019-US-02	KERNEL	United States	13-Jun-2019	88472864/Class 10	Goods	Medical apparatus	Medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	Pending	
KERNEL-2019-US-02	KERNEL	United States	13-Jun-2019	88472866/Class 35	Services	Advertising and business services	sensor system that measures, tracks or monitors brain activity and mental states	Pending	
KERNEL-2019-US-02	KERNEL	United States	13-Jun-2019	88472868/Class 42	Services	Computer and scientific services	Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending	\$10,000.00

HEIREL-2019-US-01	UNITED STATES	23-Jun-2019	85472670; Class 34	Services	Medical Services	Medical evaluation of neurological conditions or neurological diseases; Medical evaluation of neurological conditions or neurological diseases for drug development purposes; Medical testing for diagnostic or treatment purposes; Medical testing for diagnostic or treatment purposes in the field of neurology; Medical diagnostic testing, monitoring and reporting services; Medical and healthcare services, namely, providing medical and healthcare information, and medical and healthcare advice	Pending
WHAT ELSE ARE YOU CAPABLE OF?	United States	7-Aug-2019	86169817; Class 03	Goods	Electrical and scientific apparatus	Sensor system comprised of a wearable modular sensing unit, namely, biofeedback sensors, optical sensors, and magnetic sensors and supporting modular electronics for data processing, signal processing, and connectivity, namely, computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; sensor system, namely, modular electronic devices, namely, biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for the purpose of measuring, interpreting, tracking, and monitoring brain activity and mental states; recorded and downloadable computer software and recorded and downloadable mobile applications for processing, interpreting, monitoring, and managing data produced by a wearable sensor system that measures, tracks or monitors brain activity and mental states	Pending
WHAT ELSE ARE YOU CAPABLE OF?	United States	7-Aug-2019	86169820; Class 10	Goods	Medical apparatus	Medical devices, namely, neurophysiology instruments used for recording and processing signals from human and animal nervous systems AND electrophysiology equipment used for recording and processing electrical signals from human and animal subjects and neuroprosthetic devices designed to interface to human and animal nervous systems to restore lost function; Medical devices, namely, sensor systems comprised of a wearable modular sensing unit, WHICH ARE COMPRISED OF biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for use in screening and diagnosing neurological conditions; medical devices, namely, sensor systems comprised of a wearable modular sensing unit, WHICH ARE COMPRISED OF biofeedback sensors, optical sensors, magnetic sensors, and computer hardware for recording and processing brain activity and mental states from human and animal subjects	Pending
WHAT ELSE ARE YOU CAPABLE OF?	United States	7-Aug-2019	86169829; Class 35	Services	Advertising and business services	Business processing services, namely, processing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending
WHAT ELSE ARE YOU CAPABLE OF?	United States	7-Aug-2019	86169835; Class 42	Services	Computer and scientific services	Research and development of new technological and scientific products, treatments and techniques for others in the fields of neurology and cognitive behavior therapy; development and design of computer software for others; Scientific research for medical purposes in the field of artificial intelligence; Technology consultation and research in the field of artificial intelligence; Technology research in the field of artificial intelligence; Advanced product research in the field of artificial intelligence; Consultation services in the fields of neuroscience research and neural engineering; product research and development consultation in the field of neuroprosthetics; Providing temporary use of online non-downloadable software for processing, interpreting, monitoring, and managing data produced by a sensor system that measures, tracks or monitors brain activity and mental states	Pending
WHAT ELSE ARE YOU CAPABLE OF?	United States	7-Aug-2019	86169837; Class 44	Services	Medical Services	Medical services; medical rehabilitation services for the field of neurology; Providing neurological rehabilitation services; Medical evaluation of neurological condition or neurological disease; Medical testing for diagnostic or treatment purposes; Medical testing for diagnostic or treatment purposes in the field of neurology; Medical diagnostic testing, monitoring and reporting services; Medical and healthcare services, namely, providing medical and healthcare information, and medical and healthcare advice; Medical evaluation of neurological conditions or neurological diseases for drug development purposes	Pending

SCHEDULE C

**To Plain English Intellectual Property Security Agreement
Between HI LLC, as You (Grantor)
And TRIPLEPOINT PRIVATE VENTURE CREDIT INC., as Us (Grantee)**

COPYRIGHTS AND COPYRIGHT APPLICATIONS

COPYRIGHT REGISTRATIONS

None

APPLICATIONS FOR COPYRIGHT REGISTRATIONS

None