

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM856641

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
HI LLC		11/21/2023	Limited Liability Company: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	TRIPLEPOINT PRIVATE VENTURE CREDIT INC.		
<b>Street Address:</b>	2755 Sand Hill Road		
<b>City:</b>	Menlo Park		
<b>State/Country:</b>	CALIFORNIA		
<b>Postal Code:</b>	94025		
<b>Entity Type:</b>	Corporation: MARYLAND		
<b>PROPERTY NUMBERS Total: 7</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	6570985	KERNEL FLOW	
<b>Registration Number:</b>	6570984	KERNEL FLOW	
<b>Serial Number:</b>	90400930	KERNEL FLOW	
<b>Serial Number:</b>	90400936	KERNEL FLOW	
<b>Serial Number:</b>	90400937	KERNEL FLOW	
<b>Serial Number:</b>	90400941	KERNEL FLUX	
<b>Serial Number:</b>	90400948	KERNEL FLUX	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>			
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	6508157637		
<b>Email:</b>	aalwine@mwe.com		
<b>Correspondent Name:</b>	Amy Alwine/McDermott Will & Emery LLP		
<b>Address Line 1:</b>	415 Mission Street, Suite 5600		
<b>Address Line 4:</b>	San Francisco, CALIFORNIA 94105-2616		
<b>ATTORNEY DOCKET NUMBER:</b>	082853-0216		
<b>NAME OF SUBMITTER:</b>	Judy M. Mohr		
<b>SIGNATURE:</b>	/Judy M. Mohr/		

CH \$190.00 6570985

**DATE SIGNED:**

11/28/2023

**Total Attachments: 36**

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**PLAIN ENGLISH INTELLECTUAL PROPERTY SECURITY AGREEMENT**

This is a Plain English Intellectual Property Security Agreement dated as of November 21, 2023 by (the “Agreement”) 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 “Grantor”).

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:

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**1. GRANT OF SECURITY INTEREST**

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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.

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**2. LOAN AGREEMENT**

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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.

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**3. OUR RIGHT TO SUE**

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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.

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**4. FURTHER ASSURANCES**

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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.

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**5. MODIFICATION**

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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.

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**6. BINDING EFFECT; REMEDIES NOT EXCLUSIVE**

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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.

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**7. GOVERNING LAW; COUNTERPARTS**


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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:   
Print Name: Ryan Field  
Title: President and CEO

**[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)

Publication Number	Title	Application Number	Application Date	Publication Date	Dead/Alive DWPI Family Status	Dead/Alive INP-ADOC Family Status	Assignee/Applicant	Assignee Current US
US11789533B2	Synchronization between brain interface system and extended reality system	US17466683A 17/466,683	2021-09-03	2023-10-17	No associated DWPI family	No associated INP-ADOC family	HILLC, Los Angeles, CA, US	HILLC
US2023030515A 1	TIME-OF-FLIGHT OPTICAL MEASUREMENT AND DECODING OF FAST-OPTICAL SIGNALS	US17663992A 17/663,992	2023-05-18	2023-09-28	No associated DWPI family	Alive	HILLC, Los Angeles, CA, US	HILLC
US11735681B2	Photodetector systems with low-power time-to-digital converter architectures to determine an arrival time of photon at a photodetector based on event detection time window	US17725703A 17/725,703	2022-04-21	2023-08-22	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US20230279878A 1	Phase Lock Loop Circuit Based Adjustment of a Measurement Time Window in an Optical Measurement System	US18126786A 18/126,786	2023-03-27	2023-07-20	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC

IP Security Agreement (HILLC)

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<u>US20230185228A</u> 1	Modular Optical-based Brain Interface System	US18108468A <b>18/108,468</b>	2023-02-10	2023-06-22	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
<u>US20230185096A</u> 1	WEARABLE DEVICES AND WEARABLE ASSEMBLIES WITH ADJUSTABLE POSITIONING FOR USE IN AN OPTICAL MEASUREMENT SYSTEM	US18105367A <b>18/105,367</b>	2023-02-03	2023-06-15	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
<u>US1165611922</u>	High density optical measurement systems with minimal number of light sources	US17508325A <b>17/508,367</b>	2021-10-22	2023-05-23	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
<u>US20230144166A</u> 1	SYSTEMS AND METHODS USED TO ENHANCE ARTIFICIAL INTELLIGENCE SYSTEMS BY MITIGATING HARMFUL ARTIFICIAL INTELLIGENCE ACTIONS	US17399360A <b>17/399,360</b>	2021-08-11	2023-05-11	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
<u>US1161280632</u>	Brain activity tracking during electronic gaming	US17668691A <b>17/668,691</b>	2022-02-10	2023-03-28	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC

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<u>US116043732</u>	Devices, systems, and methods with optical pumping magnetometers for three-axis magnetic field sensing	US17569287A 17/569,287	2022-01-05	2023-03-14	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
<u>US1160229692</u>	Non-invasive systems and methods for detecting mental impairment	US17586249A 17/586,249	2022-01-27	2023-03-14	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
<u>US1159771832</u>	Methods for training and using a neurome that emulates the brain of a user	US17408121A 17/408,121	2021-08-20	2023-02-28	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
<u>US1157538282</u>	Phase lock loop circuit based signal generation in an optical measurement system	US17559774A 17/559,774	2021-12-22	2023-02-07	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
<u>US20230035935A</u> 1.	Devices, Systems, and Methods for Calibrating an Optical Measurement Device	US17729593A 17/729,593	2022-04-26	2023-02-02	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC

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US1156688632	Interferometric parallel detection using digital rectification and integration	US17342493A 17/342,493	2021-06-08	2023-01-31	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US1153885822	Graphical emotion symbol determination based on brain measurement data for use during an electronic messaging session	US17726747A 17/726,747	2022-04-22	2023-01-03	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US1153885432	Wearable brain interface system comprising a head-mountable component and a control system	US17327438A 17/327,438	2021-05-21	2022-12-27	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US20220397453A 1	Maintaining Consistent Photodetector Sensitivity in an Optical Measurement System	US17724628A 17/724,628	2022-04-20	2022-12-15	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US1152586932	Interface configurations for a wearable sensor unit that includes one or more magnetometers	US17458111A 17/458,111	2021-08-26	2022-12-13	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC

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US1148063232	Magnetic field measurement systems and methods employing feedback loops with a loops with a low pass filter	US17235213A 17/235,213	2021-04-20	2022-10-25	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
WO2022216301A1	OPM MODULE ASSEMBLY WITH ALIGNMENT AND MOUNTING COMPONENTS AS USED IN A VARIETY OF HEADGEAR ARRANGEMENTS	WO2021US35753 A PCT/US2021/035753	2021-06-03	2022-10-13	Alive	Alive	HILLC, US	HILLC
US2020031333A 1	OPM MODULE ASSEMBLY WITH ALIGNMENT AND MOUNTING COMPONENTS AS USED IN A VARIETY OF HEADGEAR ARRANGEMENTS	US17338429A 17/338,429	2021-06-03	2022-10-06	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC

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US1146053332	Systems and methods having an optical magnetometer array with beam splitters	US17208541A 17/208,541	2021-03-22	2022-10-04	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
WO2022207746A1	OPTIMIZING AN INDIVIDUAL'S WELLNESS THERAPY USING A NON-INVASIVE BRAIN MEASUREMENT SYSTEM   OPTIMISATION D'UNE THERAPIE DU BIEN-ÊTRE D'UN INDIVIDU A L'AIDE D'UN SYSTEME DE MESURE CEREBRALE NON INVASIF	WO2022207746A1 PCT/US2022/011839	2022-01-10	2022-09-29	Alive	Alive	HILLC, US	
US1145247032	Devices, systems, and methods using wearable time domain-based activity tracker	US17550387A 17/550,387	2021-12-14	2022-09-27	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US20220366895A1	Optimizing an Individual's Wellness Therapy Using a Non-Invasive Brain Measurement System	US17572281A 17/572,281	2022-01-10	2022-09-22	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC

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US2022029584A 1	DEVICES, AND SYSTEMS, AND METHODS FOR SUPPRESSING OPTICAL NOISE IN OPTICALLY PUMPED MAGNETOMETERS	US17689669A 17/689,669	2022-03-08	2022-09-22	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
WO2022187098A1	DATA AGGREGATION AND POWER DISTRIBUTION IN TIME DOMAIN-BASED OPTICAL MEASUREMENT SYSTEMS   AGREGATION DE DONNEES ET DISTRIBUTION DE PUISSANCE DANS DES SYSTEMES DE MESURE OPTIQUE BASES SUR LE DOMAINE TEMPOREL	WO2022US17958A PCT/US2022/017958	2022-02-25	2022-09-09	Alive	Alive	HILLC, US	
WO2022186880A1	PRESENTATION OF GRAPHICAL CONTENT ASSOCIATED WITH MEASURED BRAIN ACTIVITY   PRESENTATION D'UN CONTENU GRAPHIQUE ASSOCIE A UNE ACTIVITE CEREBRALE MESUREE	WO2022US64932A PCT/US2021/064932	2021-12-22	2022-09-09	Alive	Alive	HILLC, US	

IP Security Agreement (HILLC)

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US20220280110A 1	Data Aggregation and Power Distribution in Time Domain-Based Optical Measurement Systems	US17680828A 17/680,828	2022-02-25	2022-09-08	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
US2022028084A 1	Presentation of Graphical Content Associated With Measured Brain Activity	US17559316A 17/559,316	2021-12-22	2022-09-08	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
US114733832	Wearable brain interface systems including a headgear and a plurality of photodetector units each housing a photodetector configured to be controlled by a master control unit	US17213664A 17/213,664	2021-03-26	2022-09-06	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
US20220276589A 1	Optical Measurement System Integrated into a Wearable Glasses Assembly	US17665886A 17/665,886	2022-02-07	2022-09-01	Dead	Dead	HILLC,Los Angeles, CA,US	HILLC
US2022027333A 1	Brain Activity Derived Formulation of Target Sleep Routine for a User	US17592615A 17/592,615	2022-02-04	2022-09-01	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC

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US20220272852A 1	OPTIMIZING AUTONOMOUS SELF-USING NON-INVASIVE MEASUREMENT SYSTEMS AND METHODS	US17592838A 17/592,838	2022-02-04	2022-09-01	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US20220272867A 1	Optical Measurement System Integrated into a Hearing Device	US17665851A 17/665,851	2022-02-07	2022-09-01	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US20220272922A 1	Systems and Methods for Calibration of an Optical Measurement System	US17668722A 17/668,722	2022-02-10	2022-09-01	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
WO2022182526A1	BRAIN ACTIVITY TRACKING DURING ELECTRONIC GAMING   SUIVI D'ACTIVITE CEREBRALE PENDANT UN JEU ELECTRONIQUE	WO2022US15999 A PCT/US2022/015999	2022-02-10	2022-09-01	Alive	Alive	HILLC, US	
WO2022182528A1	SYSTEMS AND METHODS FOR CALIBRATION OF AN OPTICAL MEASUREMENT SYSTEM   SYSTEMES ET PROCEDES POUR L'ETALONNAGE D'UN SYSTEME DE MESURE OPTIQUE	WO2022US16004 A PCT/US2022/016004	2022-02-10	2022-09-01	Alive	Alive	HILLC, US	

IP Security Agreement (HILLC)

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WO202132493A1	BRAIN ACTIVITY DERIVED FORMULATION OF TARGET SLEEP ROUTINE FOR A USER   FORMULATION DERIVEE DE L'ACTIVITE CEREBRALE D'UNE ROUTINE DE SOMMEIL CIBLE POUR UN UTILISATEUR	WO2022US15333 A PCT/US2022/015333	2022-02-04	2022-09-01	Alive	Alive	HILLC.US	
WO202132496A1	OPTIMIZING AUTONOMOUS SELF USING NON-INVASIVE MEASUREMENT SYSTEMS AND METHODS   OPTIMISATION AUTONOME A L'AIDE DE SYSTEMES ET DE PROCEDÉS DE MESURE NON INVASIFS	WO2022US15268 A PCT/US2022/015268	2022-02-04	2022-09-01	Alive	Alive	HILLC.US	
US20220265174A 1	Devices, Systems, and Methods for Calibrating an Optical Measurement Device	US17665821A 17/665,821	2022-02-07	2022-08-25	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC
US1139837832	Photodetector systems with low-power time-to-digital converter architectures to determine an arrival time of photon at a photodetector based on event detection time	US17095287A 17/095,287	2020-11-11	2022-07-26	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC

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US3022021:665A	DEVICES, SYSTEMS, AND METHODS USING WEARABLE TIME DOMAIN-BASED ACTIVITY TRACKER   DISPOSITIFS, SYSTEMES ET PROCÉDES UTILISANT UN DISPOSITIF DE SUIVI D'ACTIVITÉ POUVANT ÊTRE PORTE SUR SOI ET BASÉ SUR UN DOMAINE TEMPOREL	WO20210563375 A PCT/US2021/063375	2021-12-14	2022-07-14	Alive	Alive	HILLC,US		
US1757240A 17/572,404	DEVICES, SYSTEMS, AND METHODS WITH A PIEZOELECTRIC-DRIVEN LIGHT INTENSITY MODULATOR	US17105338A 17/105,338	2022-01-10	2022-07-14	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC	
US1138727B2	Systems and methods including multi-mode operation of optically pumped magnetometer(s)		2020-11-25	2022-04-19	Alive	Alive	HILLC,Los Angeles, CA,US	HILLC	

IP Security Agreement (HILLC)

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US20220691671A 1	WEARABLE EXTENDED REALITY-BASED NEUROSCIENCE ANALYSIS SYSTEMS   SYSTEMES D'ANALYSE DE NEUROSCIENCE A BASE DE REALITE ETENDUE A PORTIER SUR SOI	WO2021US49082 A PCT/US2021/049082	2021-09-03	2022-03-31	Alive	Alive	HILLC US	HILLC
US20220691671A 1	Wearable Extended Reality-Based Neuroscience Analysis Systems	US1746663A 17/466,663	2021-09-03	2022-03-24	Alive	Alive	HILLC HI LLC Los Angeles, CA, US	HILLC
US20220691671A 1	Maintaining Consistent Photodetector Sensitivity in an Optical Measurement System	US17390624A 17/390,624	2021-07-30	2022-02-17	Alive	Alive	HILLC HI LLC Los Angeles, CA, US	HILLC
WO2022035626A1	MAINTAINING CONSISTENT PHOTODETECT OR SENSITIVITY IN AN OPTICAL MEASUREMENT SYSTEM  MAINTIEN CONSTANT DE LA SENSIBILITE DE PHOTODÉTECTEUR DANS UN SYSTÈME DE MESURE OPTIQUE	WO2021US44039 A PCT/US2021/044039	2021-07-30	2022-02-17	Alive	Alive	HILLC US	

US2021031383A 1	NON-INVASIVE SYSTEM AND METHOD FOR PRODUCT FORMULATION ASSESSMENT BASED ON PRODUCT-ELICITED BRAIN STATE MEASUREMENTS	US17500475A 17/500,475	2021-10-13	2022-02-03	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US20210389388A 1	SINGLE CONTROLLER FOR WEARABLE SENSOR UNIT THAT INCLUDES AN ARRAY OF MAGNETOMETERS	US17412959A 17/412,959	2021-08-26	2021-12-16	Dead	Alive	HILLC   HI LLC, Los Angeles, CA, US	HILLC
US20210341383A 1	INTERFEROMETRIC PARALLEL DETECTION USING ANALOG DATA COMPRESSION	US17349190A 17/349,190	2021-06-16	2021-11-04	Alive	Alive	HILLC, Los Angeles, CA, US	HILLC
US20210321931A 1	WEARABLE MODULE ASSEMBLIES FOR AN OPTICAL MEASUREMENT SYSTEM	US17364430A 17/364,430	2021-06-30	2021-10-21	Alive	Alive	HILLC   HI LLC, Los Angeles, CA, US	HILLC
WO2021188487A1	TEMPORAL RESOLUTION CONTROL FOR TEMPORAL POINT SPREAD FUNCTION GENERATION IN AN OPTICAL MEASUREMENT SYSTEM   COMMANDE DE RESOLUTION	WO2021US22486A PCT/US2021/022486	2021-03-16	2021-09-23	Alive	Alive	HILLC, US	

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	TEMPORELLE POUR LA GÉNÉRATION D'UNE FONCTION DETAILED DE POINT TEMPOREL DANS UN SYSTEME DE MESURE OPTIQUE								
<u>WO2021178298A1</u>	SYSTEMS AND METHODS FOR TRAINING AND USING A NEURONIC THAT EMULATES THE BRAIN OF A USER SYSTEMS ET PROCÉDÉS D'ENTRAÎNEMENT ET D'UTILISATION D'UN NEURONIC QU'EMULE LE CERVEAU D'UN UTILISATEUR	WO2021US20258 A PCT/US2021/0202 58	2021-03-01	2021-09-10	Alive	Alive	HILLC,US		
<u>WO2021167876A1</u>	METHODS AND SYSTEMS FOR INITIATING AND CONDUCTING A CUSTOMIZED COMPUTER- ENABLED BRAIN RESEARCH STUDY PROCÉDÉS ET SYSTEMES PERMETTANT D'INITIER ET DE MENER UNE ETUDE PERSONNALISÉ E DE RECHERCHE	WO2021US18155 A PCT/US2021/0181 55	2021-02-16	2021-08-26	Alive	Alive	HILLC,US		

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	CEREBRALE ACTIVEE PAR ORDINATEUR								
<u>US20210196173A</u> J	MODULATION OF MENTAL STATE OF A USER USING A NON-INVASIVE BRAIN INTERFACE SYSTEM AND METHOD	US1178473A 17/178,473	2021-02-18	2021-07-01	Alive	Alive	HILLCC,Los Angeles,CA,US	HILLCC	
<u>WO202036666A1</u>	OPTICALLY PUMPED MAGNETOMETRIC   MAGNETOMETRIE A POMPAGE OPTIQUE	WO2019US33320 A PCT/US2019/033320	2019-05-21	2020-02-20	Alive	Alive	HILLCC,US		
<u>WO2019212820A1</u>	INTERFEROMETRIC FREQUENCY-SWEPT SOURCE AND DETECTOR IN A PHOTONIC INTEGRATED CIRCUIT   SOURCE ET DETECTEUR INTERFEROMETRIQUES A BALAYAGE DE FREQUENCE DANS UN CIRCUIT PHOTONIQUE INTEGRE	WO2019US28881 A PCT/US2019/028881	2019-04-24	2019-12-26	Alive	Alive	HILLCC,US		

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WO2019168556A1	ULTRASOUND MODULATING OPTICAL TOMOGRAPHY USING REDUCED LASER PULSE DURATION   TOMOGRAPHIE OPTIQUE A MODULATION DES ULTRASONS UTILISANT UNE DUREE DIMINUEE L'IMPULSION LASER REDUITE	WO2018US41334 A PCT/US2018/0413 34	2018-07-09	2019-09-06	Dead	Dead	HILLCC.US   MARBLESTONE Adam, US   YANG Changhui, US	
WO201918800A1	SYSTEMS AND METHODS FOR QUASI- BALLISTIC PHOTON OPTICAL COHERENCE TOMOGRAPHY IN DIFFUSIVE SCATTERING MEDIA USING A LOCK-IN CAMERA DETECTOR   SYSTEMES ET PROCÉDÉS DE TOMOGRAPHIE PAR COHERENCE OPTIQUE PHOTONIQUE QUASI- BALISTIQUE DANS DES MILIEUX DE DIFFUSION DIFFUSIFS AU MOYEN D'UN DÉTECTEUR À CAMÉRA A VERROUILLAGE	WO2018US41324 A PCT/US2018/0413 24	2018-07-09	2019-06-20	Alive	Alive	HILLCC.US	

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WO2019103765A1	SYSTEM AND METHOD FOR SIMULTANEOUSLY DETECTING PHASE MODULATED OPTICAL SIGNALS   SYSTEME ET PROCEDURE DE DETECTION SIMULTANEE DE SIGNAUX OPTIQUES A MODULATION DE PHASE	WO2018US41333 A PCT/US2018/041333	2018-07-09	2019-05-31	Alive	Alive	HILLC,US	
WO2019103764A1	PULSED ULTRASOUND MODULATED OPTICAL TOMOGRAPHY USING LOCK-IN CAMERA   TOMOGRAPHIE OPTIQUE MODULEE PAR ULTRASONS PULSES UTILISANT UN APPAREIL DE PRISE DE VUES A	WO2018US41331 A PCT/US2018/041331	2018-07-09	2019-05-31	Alive	Alive	HILLC,US	
WO201906178A1	VEROUILLAGE RECONFIGURABLE BIOSIGNAL PROCESSING ARCHITECTURE   ARCHITECTURE DE TRAITEMENT DE BIOSIGNAL RECONFIGURABLE	WO2018US41066 A PCT/US2018/040106	2018-06-28	2019-01-03	Alive	Alive	HILLC,US	

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EP07236534B2	非侵襲で装着可能な脳インターフェイスシステム   The brain interface system which can be mounted non-invasively	JP2021514282A	2018-11-28	2023-03-09	Alive	Alive	HILLC.US	
CN114401670A	Product formulation non-invasive system and method based on product induced brain state measurement   基于产品诱发的大脑状态测量的产品配方评估的无创系统和方法	CN202080031423A	2020-04-20	2022-04-26	Alive	Alive	HILLC.US   HI 有限责任公司, US	
EP3982822A2	NON-INVASIVE SYSTEMS AND METHODS FOR THE DETECTION AND MODULATION OF A USERS MENTAL STATE THROUGH AWARENESS OF PRIMING EFFECTS   NICHT-INVASIVE SYSTEME UND VERFAHREN ZUR DETEKTION UND MODULATION DES GEISTIGEN ZUSTANDES EINES BENUTZERS DURCH KENNNTNIS VON PRIMING-	EP2020761352A	2020-05-28	2022-04-20	Alive	Alive	HILLC.Los Angeles, CA 90036, US, 1017969 90	

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EP19860849A1	EFFECTENI SYSTEMES ET METHODES NON INVASIFS POUR LA DETECTION ET LA MODULATION DE L'ETAT MENTAL D'UN UTILISATEUR PAR UNE PRISE DE CONSCIENCE DEFFETS DE SENSIBILISATIO N	EP2020732035A	2020-05-21	2022-04-13	Alive	Alive	HILLCLIOS Angeles, CA 90036, US, 1017969 90	
EP19663390A1	PHOTODETECT OR SYSTEMS WITH LOW- POWER TIME- TO-DIGITAL CONVERTER ARCHITECTURE S I LICHTDETEKTO R SYSTEME MIT LEISTUNGSARM EN ZEIT- DIGITAL- WANDLERARCH ITEKTUREN I SYSTEMS DE PHOTODETECTE URS AVEC ARCHITECTURE S I DE CONVERTISSEU R NUMERIQUE DE TEMPS DE FAIBLE PUISSANCE	EP2020724256A	2020-04-09	2022-03-16	Alive	Alive	HILLCLIOS Angeles, CA 90036, US, 1017969 90	
	PHOTODETECT OR ARCHITECTURE S FOR TIME- CORRELATED SINGLE PHOTON COUNTING I PHOTODETEKTI							

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	<p>ORARCHITECTURE REN FÜR ZEITKORRELIERTE EINZELPHOTON ENZÄHLUNG/ ARCHITECTURE S DE PHOTODÉTECTE UR POUR COMPTAGE DE PHOTONS UNIQUES CORRELE DANS LE TEMPS</p>							
<p>EP1958776A1</p>	<p>NON-INVASIVE SYSTEM AND METHOD FOR PRODUCT FORMULATION ASSESSMENT BASED ON PRODUCT- ELICITED BRAIN STATE MEASUREMENT S   NICHT- INVASIVES SYSTEM UND VERFAHREN ZUR BESTIMMUNG DER PRODUKTFORM ULIERUNG BASIEREND AUF MESSUNGEN DES PRODUKTAUSG ELÖSTEN Gehirnzustan DS   SYSTEME NON INVASIF ET PROCÉDÉ DÉVALUATION DE FORMULATION DE PRODUIT</p>	<p>EP2020725306A</p>	<p>2020-04-20</p>	<p>2022-03-02</p>	<p>Alive</p>	<p>Alive</p>	<p>HILLCLoS Angeles, CA 90036, US, 1017969 90</p>	

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	<p>SUR LABASE DE MESURES D'ÉTAT CÉRÉBRAL SUSCITÉ PAR UN PRODUIT</p>						<p>HILLCLos Angeles, CA 90036, US, 1017969 90</p>	
<p><u>EP3948317A1</u></p>	<p>INTEGRATED MAGNETOMETE R ARRAYS FOR MAGNETOENCE PHALOGRAPHY (MEG) DETECTION SYSTEMS AND METHODS   INTEGRIERIE MAGNETOMETE RANORDNUNGE N FÜR MAGNETOENZE PHALOGRAPHIE (MEG)- DETEKTIONSSY STEME UND VERFAHREN   RESEAUX DE MAGNETOMETR ES INTÉGRES POUR SYSTEMES ET PROCEDES DE DETECTION DE MAGNETOENCE PHALOGRAPHIE (MEG)</p>	<p>EP2020717522A</p>	<p>2020-03-16</p>	<p>2022-02-09</p>	<p>Alive</p>	<p>Alive</p>	<p>HILLCLos Angeles, CA 90036, US, 1017969 90</p>	
<p><u>EP3948317A1</u></p>	<p>MODULATION OF MENTAL STATE OF A USER USING A NON-INVASIVE BRAIN INTERFACE SYSTEM AND METHOD   MODULATION DES MENTALLEN</p>	<p>EP2020726252A</p>	<p>2020-03-31</p>	<p>2022-02-09</p>	<p>Alive</p>	<p>Alive</p>	<p>HILLCLos Angeles, CA 90036, US, 1017969 90</p>	

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	<p>ZUSTANDES EINES BENUTZERS UNTER VERWENDUNG EINES NICHT- INVASIVEN HIRNSCHNITTST- ELLENSYSTEMS UND VERFAHREN I MODULATION DE L'ÉTAT MENTAL D'UN UTILISATEUR À L'AIDÉ D'UN SYSTÈME ET D'UN PROCÉDÉ D'INTERFACE CÉRÉBRALE NON INVASIVE</p>							
<p>CN14007494A</p>	<p>Non-invasive system and method for detecting and modulating user's mental state by conscious start effect   通过意识启动效 应检测和调制用 户精神状态的非 侵入式系统和方 法</p>	<p>CN202080043342 A</p>	<p>2020-05-28</p>	<p>2022-02-01</p>	<p>Alive</p>	<p>Alive</p>	<p>HILLC.US   HI 有限责任公司, US</p>	
<p>AU2020290891A1</p>	<p>Non-invasive systems and methods for the detection and modulation of a user's mental state through awareness of priming effects</p>	<p>AU2020290891A</p>	<p>2020-05-28</p>	<p>2021-12-23</p>	<p>Alive</p>	<p>Alive</p>	<p>HILLC</p>	

EP3924743A1	NEURAL FEEDBACK LOOP FILTERS FOR ENHANCED DYNAMIC RANGE MAGNETOENCEPHALOGRAPHY (MEG) SYSTEMS AND METHODS   NEURONALE RÜCKKOPPLUNGSSCHLEIFENFILTER FÜR MAGNETOENZEPHALOGRAFIE (MEG)-SYSTEME MIT VERSTÄRKTEM DYNAMIKBEREICH UND VERFAHREN   FILTRES A BOUCLE DE RETROACTION NEURALE POUR SYSTEMES ET PROCÉDES DE MAGNÉTOENCEPHALOGRAPHIE (MEG) À PLAGE DYNAMIQUE AMÉLIORÉE	EP2020707950A	2020-01-24	2021-12-22	Alive	Alive	HILLC, Los Angeles, CA 90036, US, 101796990	
CN13795737A	Photoelectric detector architecture for time-dependent single photon count 用于时间相关的单光子计数的光电探测器架构	CN2020800033870A	2020-04-09	2021-12-14	Alive	Alive	HILLC, US   山有有限责任公司, US	

CN11766871A	Photoelectric detector system with low power time-to-digital converter architecture   具有低功率的时间数字转换器架构的光电检测器系统	CN202080031725 A	2020-05-21	2021-12-07	Alive	Alive	HILLC.US   HI有限责任公司, US	
AU2020287839A	Photodetector systems with low-power time-to-digital converter architectures	AU2020287839A	2020-05-21	2021-12-02	Alive	Alive	HILLC	
AU2020268718A	Photodetector architectures for time-correlated single photon counting	AU2020268718A	2020-04-09	2021-11-25	Alive	Alive	HILLC	
CN113677759A	Modulation of a user's mental state using a non-invasive brain interface system and method   使用无创大脑界面系统和方法调制用户的心理状态	CN202080024819 A	2020-03-31	2021-11-19	Alive	Alive	HILLC.US   HI有限责任公司, US	
AU2020261944A	Non-invasive system and method for product formulation assessment based on product-elicited brain state measurements	AU2020261944A	2020-04-20	2021-11-18	Alive	Alive	HILLC	

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AU2020252190A1	Modulation of mental state of a user using a non-invasive brain interface system and method	AU2020252190A	2020-03-31	2021-11-18	Alive	Alive	HILLC	
EP3814792A1	SYSTEMS AND METHODS INCLUDING MULTI-MODE OPERATION OF OPTICALLY PUMPED MAGNETOMETERS(S)   SYSTEME UND VERFAHREN MIT MULTIMODUSBETRIB VON OPTISCH GEPUMPTEN MAGNETOMETERN   SYSTEMES ET PROCÉDÉS COMPRENANT UN FONCTIONNEMENT MULTIMODE DE MAGNETOMETRES) A POMPAGE OPTIQUE	EP2019730006A 19730006.4	2019-05-21	2021-05-05	Alive	Alive	HILLClos Angelas, CA 90036, US, 1017969 90	
KR2021010912A	Non-invasive wearable brain interface system   비 침습적 웨어러블 뇌 인터페이스 시스템	KR20207036198A	2018-11-28	2021-01-28	Alive	Alive	HILLC.US   [하이] 엔엘씨, US	

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CN12154354	Non-invasive wearable brain interface system   无创可穿戴脑接口系统	CN201880093514 A 201880093514	2018-11-28	2020-12-29	Alive	Alive	HILLCLOS   Hill 有限责任公司, US	
CA3139132A1	NON-INVASIVE SYSTEMS AND METHODS FOR THE DETECTION AND MODULATION OF A USERS MENTAL STATE THROUGH AWARENESS OF PRIMING EFFECTS   SYSTEMES ET METHODES NON INVASIFS POUR LA DETECTION ET LA MODULATION DE L'ETAT MENTAL D'UN UTILISATEUR PAR UNE PRISE DE CONSCIENCE DE DEFETS DE SENSIBILISATION	CA3139132A 3139,132	2020-05-28	2020-12-17	Alive	Alive	HILLCLOS ANGELES,CA.US	
CA3137921A1	PHOTODETECT OR SYSTEMS WITH LOW-POWER TIME-TO-DIGITAL CONVERTER ARCHITECTURES   SYSTEMES DE PHOTODETECTEURS AVEC ARCHITECTURE CONVERTEUSSE	CA3137921A 3137,921	2020-05-21	2020-12-10	Alive	Alive	HILLCLOS ANGELES,CA.US	

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	R NUMERIQUE DE TEMPS DE FAIBLE PUISSANCE								
<u>CA3136228A</u>	Non-invasive wearable brain interface systems	AU2018423160A <b>2018423160</b>	2018-11-28	2020-11-19	Alive	Alive	HILLCLOS ANGELES, CA, US		
CA3136228A	PHOTODETECT OR ARCHITECTURE S FOR TIME- CORRELATED SINGLE PHOTON COUNTING   ARCHITECTURE SIDE PHOTODETECTE UR POUR COMPTAGE DE PHOTONS UNIQUES CORRELE DANS LE TEMPS	CA3136228A <b>3,135,228</b>	2020-04-09	2020-11-12	Alive	Alive	HILLCLOS ANGELES, CA, US		
<u>CA3136214A</u>	NON-INVASIVE SYSTEM AND METHOD FOR PRODUCT FORMULATION ASSESSMENT BASED ON PRODUCT- ELICITED BRAIN STATE MEASUREMENT SI SYSTEME NON INVASIF ET PROCEDE DEVALUATION DE	CA3136214A <b>3,136,214</b>	2020-04-20	2020-10-29	Alive	Alive	HILLCLOS ANGELES, CA, US		

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	<p>FORMULATION DE PRODUIT SUR LA BASE DE MESURES DETAT CEREBRAL SUSCITE PAR UN PRODUIT</p>	<p>CA3130157A 3130,157</p>	<p>2020-03-16</p>	<p>2020-10-08</p>	<p>Alive</p>	<p>Alive</p>	<p>HILLCLOS ANGELES, CA US</p>	
<p>CA3134153A</p>	<p>INTEGRATED MAGNETOMETE R ARRAYS FOR MAGNETOENCE PHALOGRAPHY (MEG) DETECTION SYSTEMS AND METHODS   RESEAUX DE MAGNETOMETRES INTEGRES POUR SYSTEMES ET PROCEDES DE DETECTION DE MAGNETOENCE PHALOGRAPHIE (MEG)</p>	<p>CA3134153A 3134,153</p>	<p>2020-03-31</p>	<p>2020-10-08</p>	<p>Alive</p>	<p>Alive</p>	<p>HILLCLOS ANGELES, CA US</p>	
	<p>MODULATION OF MENTAL STATE OF A USER USING A NON-INVASIVE BRAIN INTERFACE SYSTEM AND METHOD   MODULATION DE LETAT MENTAL D'UN UTILISATEUR A LAIDE D'UN SYSTEME ET D'UN PROCEDE D'INTERFACE CEREBRALE NON INVASIVE</p>							

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CA3129530A1	NEURAL FEEDBACK LOOP FILTERS FOR ENHANCED DYNAMIC RANGE MAGNETOENCE PHALOGRAPHY (MEG) SYSTEMS AND METHODS   FILTRES A BOUCLE DE RETROACTION NEURALE POUR SYSTEMES ET PROCEDES DE MAGNETOENCE PHALOGRAPHIE (MEG) A PLAGE DYNAMIQUE AMELIOREE	CA3129530A <b>3,129,503</b>	2020-01-24	2020-08-20	Alive	Alive	HILLCIOS ANGELES, CA, US	
CA3096824A1	NON-INVASIVE WEARABLE BRAIN INTERFACE SYSTEMS   SYSTEMES D'INTERFACE CEREBRAL VESTIMENTAIR E NON INVASIFS	CA3096824A <b>3,096,824</b>	2018-11-28	2019-11-21	Alive	Alive	HILLCIOS ANGELES, CA, US	

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**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)

Trademark	Application No.	Filing Date	Registration No.	Registration Date	Registrant
KERNEL FLOW	90400934	December 22, 2020	6570985	November 23, 2021	HILLC, d/b/a Kernel
KERNEL FLOW	90400932	December 22, 2020	6570984	November 23, 2021	HILLC, d/b/a Kernel
KERNEL FLOW	90400930	December 22, 2020			HILLC, d/b/a Kernel
KERNEL FLOW	90400936	December 22, 2020			HILLC, d/b/a Kernel
KERNEL FLOW	90400937	December 22, 2020			HILLC, d/b/a Kernel
KERNEL FLUX	90400941	December 22, 2020			HILLC, d/b/a Kernel
KERNEL FLUX	90400948	December 22, 2020			HILLC, d/b/a Kernel

**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