

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM809160

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Velodyne Lidar USA, Inc.		05/09/2023	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	Hercules Capital, Inc., as Agent		
Street Address:	400 Hamilton Avenue		
Internal Address:	Suite 310		
City:	Palo Alto		
State/Country:	CALIFORNIA		
Postal Code:	94301		
Entity Type:	Corporation: MARYLAND		
PROPERTY NUMBERS Total: 13			
Property Type	Number	Word Mark	
Registration Number:	6427071	ALPHA PRIME	
Registration Number:	6031892	ALPHA PUCK	
Registration Number:	3662148	HIGH DEFINITION LIDAR	
Registration Number:	4508293		
Registration Number:	5412410		
Registration Number:	5672884	REINVENTING THE DESIGNATED DRIVER	
Registration Number:	6195530	VELARRAY	
Registration Number:	6480788	VELLA	
Registration Number:	6720493	VELLA	
Registration Number:	5077038	VELODYNE	
Registration Number:	5077034	VELODYNE LIDAR	
Registration Number:	6103935	WORLD SAFETY SUMMIT ON AUTONOMOUS TECHNO	
Registration Number:	5412485	YOUR SAFETY IS WHAT DRIVES US	
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>			
Email:	julia.brow@us.dlapiper.com		

CH \$340.00 6427071

Correspondent Name: Julia Brow (DLA PIPER LLP)
Address Line 1: 4365 Executive Drive
Address Line 2: Suite 1100
Address Line 4: San Diego, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER: 436515-000012

NAME OF SUBMITTER: Julia Brow

SIGNATURE: /Julia Brow/

DATE SIGNED: 05/09/2023

Total Attachments: 14

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT (“Agreement”) dated as May 9, 2023, is made by VELODYNE LIDAR USA, INC., a Delaware corporation, and each domestic Subsidiary signatory hereto (individually and collectively, the “Grantor”), in favor of HERCULES CAPITAL, INC., a Maryland corporation, in its capacity as administrative agent and collateral agent (together with its successors and assigns in such capacity, “Agent”) for itself and the Lenders (as defined below).

RECITALS

A. Grantor has entered into a Loan and Security Agreement with certain financial institutions party thereto (the “Lenders”) and Agent, in its capacity as administrative agent and collateral agent for itself and the Lenders, dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the “Loan Agreement”). All capitalized terms used but not defined herein shall have the respective meanings given to them in the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Agent for its benefit and the benefit of the Lenders a security interest in all of Grantor’s right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

1. Grant of Security Interest. To secure its obligations under the Loan Agreement, Grantor grants and pledges to Agent for its benefit and the benefit of the Lenders a security interest in all of Grantor’s right, title and interest in, to and under its intellectual property (all of which shall collectively be called the “Intellectual Property Collateral”), including, without limitation, the following:

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the “Copyrights”);

(b) Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(c) Any and all design rights that may be available to Grantor now or hereafter existing, created, acquired or held;

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions, re-examination certificates, utility models, and continuations-in-part of the same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the “Patents”);

(e) Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the “Trademarks”);

(f) All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation those set forth on Exhibit D attached hereto (collectively, the “Mask Works”);

(g) Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) All amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

Notwithstanding the foregoing, the Intellectual Property Collateral does not include any Excluded Property.

2. Recordation. Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks and the Register of Copyrights and any other government officials to record and register this Agreement upon request by Agent.

Grantor hereby authorizes Agent to (a) modify this Agreement unilaterally by amending the exhibits to this Agreement to include any Intellectual Property Collateral which Grantor obtains subsequent to the date of this Agreement and (b) file a duplicate original of this Agreement containing amended exhibits reflecting such new Intellectual Property Collateral.

3. Loan Documents. This Agreement has been entered into pursuant to and in conjunction with the Loan Agreement, which is hereby incorporated by reference. The provisions of the Loan Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights and remedies of Agent with respect to the Intellectual Property Collateral are as provided by the Loan Agreement and related documents, and nothing in this Agreement shall be deemed to limit such rights and remedies.

4. Execution in Counterparts. This Agreement and any amendments, waivers, consents or supplements hereto may be executed in any number of counterparts, and by different parties hereto in separate counterparts, each of which when so delivered shall be deemed an original, but all of which counterparts shall constitute but one and the same instrument. Delivery of an executed counterpart of a signature page of this Agreement by facsimile, portable document format (.pdf) or other electronic transmission will be as effective as delivery of a manually executed counterpart hereof.

5. Successors and Assigns. The provisions of this Agreement shall inure to the benefit of the parties hereto and their respective successors and assigns. Grantor shall not assign its obligations under this Agreement without Agent's express prior written consent, and any such attempted assignment shall be void and of no effect. Agent may assign, transfer, or endorse its rights hereunder pursuant to the terms of the Loan Agreement without prior notice to Grantor, and all of such rights shall inure to the benefit of Agent's successors and assigns.

6. Governing Law. This Agreement has been negotiated and delivered to Agent in the State of California, and shall have been accepted by Agent in the State of California. This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of California, excluding conflict of laws principles that would cause the application of laws of any other jurisdiction.

7. Electronic Execution of Certain Other Documents. The words "execution," "execute", "signed," "signature," and words of like import in or related to any document to be signed in connection with this Agreement and the transactions contemplated hereby (including without limitation assignments, assumptions, amendments, waivers and consents) shall be deemed to include electronic signatures, the electronic matching of assignment terms and contract formations on electronic platforms approved by the Agent, or the keeping of records in electronic form, each of which shall be of the same legal effect, validity or enforceability as a manually executed signature or the use of a paper-based recordkeeping system, as the case may be, to the extent and as provided for in any applicable law,

including the Federal Electronic Signatures in Global and National Commerce Act, the New York State Electronic Signatures and Records Act, or any other similar state laws based on the Uniform Electronic Transactions Act.

[Signature page follows.]

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

VELODYNE LIDAR USA, INC., a Delaware corporation

DocuSigned by:
Mark Weinswig
8F8103E7E88AEE

By: Mark Weinswig

Title: Chief Financial Officer

AGENT:

HERCULES CAPITAL, INC., a Maryland corporation, in its capacity as administrative agent and collateral agent

DocuSigned by:
Zhuo Huang
4A38234DA40C437...

By: Zhuo Huang

Title: Associate General Counsel

[Signature Page to Intellectual Property Security Agreement]

TRADEMARK
REEL: 008066 FRAME: 0587

EXHIBIT A

Copyrights

None.

EXHIBIT B

Patents

Country Name	Applica tion No.	Filing Date	Publica tion No.	Patent No.	Patent Date	Status	Title
United States of America	62/480119	31-Mar-2017				Expired	INTEGRATED LIDAR ILLUMINATION POWER CONTROL
United States of America	15/941302	30-Mar-2018	20180284227	10386465	20-Aug-2019	Granted	INTEGRATED LIDAR ILLUMINATION POWER CONTROL
United States of America	16/510680	12-Jul-2019	20190339365	10627491	21-Apr-2020	Granted	INTEGRATED LIDAR ILLUMINATION POWER CONTROL
United States of America	16/510710	12-Jul-2019	20200191915			Publishe d	INTEGRATED LIDAR ILLUMINATION POWER CONTROL
United States of America	16/510749	12-Jul-2019	20190361092			Abando ned	INTEGRATED LIDAR ILLUMINATION POWER CONTROL
United States of America	62/289278	31-Jan-2016				Expired	LIDAR BASED 3-D IMAGING WITH FAR-FIELD ILLUMINATION OVERLAP
United States of America	15/420366	31-Jan-2017	US 2018-0164408			Allowed	LIDAR Based 3-D Imaging With Far-Field Illumination Overlap
United States of America	62/310670	19-Mar-2016				Expired	INTEGRATED ILLUMINATION AND DETECTION FOR LIDAR BASED 3-D IMAGING
United States of America	15/420384	31-Jan-2017	US 2017-0269215	10018726	10-Jul-2018	Granted	INTEGRATED ILLUMINATION AND DETECTION FOR LIDAR BASED 3-D IMAGING
United States of America	16/030780	09-Jul-2018	US-2019-0302266-A9	11073617	27-Jul-2021	Granted	INTEGRATED ILLUMINATION AND DETECTION FOR LIDAR BASED 3-D IMAGING
United States of America	17/355051	22-Jun-2021	20220026575			Publishe d	INTEGRATED ILLUMINATION AND DETECTION FOR LIDAR BASED 3-D IMAGING
United States of America	61/183265	02-Jun-2009				Expired	COLOR LIDAR SYSTEM
United States of America	12/792636	02-Jun-2010	US 2010-0302528-A1	8675181	18-Mar-2014	Granted	COLOR LIDAR SCANNER
United States of America	11/777802	13-Jul-2007	20100020306	7969558	28-Jun-2011	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	60/807305	13-Jul-2006				Expired	HIGH DEFINITION LIDAR
United States of America	61/345505	17-May-2010				Expired	ULTRA DEFINITION LIDAR
United States of America	13/109901	17-May-2011	20110216304	8767190	01-Jul-2014	Granted	ULTRA DEFINITION LIDAR

Country Name	Applica tion No.	Filing Date	Publica tion No.	Patent No.	Patent Date	Status	Title
United States of America	15/180580	13-Jun-2016		RE46672	16-Jan-2018	Granted	ULTRA DEFINITION LIDAR
United States of America	15/700543	11-Sep-2017		RE47942	14-Apr-2020	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	15/700558	11-Sep-2017		RE48666	03-Aug-2021	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	15/700571	11-Sep-2017		RE48503	06-Apr-2021	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	15/700836	11-Sep-2017		RE48504	06-Apr-2021	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	15/700844	11-Sep-2017		RE48490	30-Mar-2021	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	15/700959	11-Sep-2017		RE48688	17-Aug-2021	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	15/700965	11-Sep-2017		RE48491	30-Mar-2021	Granted	HIGH DEFINITION LIDAR SYSTEM
United States of America	16/912648	25-Jun-2020				Abandoned	HIGH DEFINITION LIDAR SYSTEM
United States of America						Unfiled	HIGH DEFINITION LIDAR SYSTEM
United States of America	62/473628	20-Mar-2017				Expired	LIDAR BASED 3-D IMAGING WITH STRUCTURED LIGHT AND INTEGRATED ILLUMINATION AND DETECTION
United States of America	15/926095	20-Mar-2018	20180267151	10330780	25-Jun-2019	Granted	LIDAR BASED 3-D IMAGING WITH STRUCTURED LIGHT AND INTEGRATED ILLUMINATION AND DETECTION
United States of America	62/311290	21-Oct-2016				Expired	LIDAR BASED 3-D IMAGING WITH VARYING ILLUMINATION FIELD DENSITY
United States of America	15/464227	20-Mar-2017	US2017-0269198A1	9983297	29-May-2018	Granted	LIDAR BASED 3-D IMAGING WITH VARYING ILLUMINATION FIELD DENSITY
United States of America	62/311296	21-Mar-2016				Expired	LIDAR BASED 3-D IMAGING WITH VARYING ILLUMINATION INTENSITY
United States of America	15/464234	20-Mar-2017	20170269197	10197669	05-Feb-2019	Granted	LIDAR BASED 3-D IMAGING WITH VARYING ILLUMINATION INTENSITY
United States of America	62/311283	21-Mar-2016				Expired	LIDAR BASED 3-D IMAGING WITH VARYING PULSE REPETITION
United States of America	15/464221	20-Mar-2017	20170269209	10048374	14-Aug-2018	Granted	LIDAR BASED 3-D IMAGING WITH VARYING PULSE REPETITION
United States of America	62/503237	08-May-2017				Expired	LIDAR DATA ACQUISITION AND CONTROL

Country Name	Applica tion No.	Filing Date	Publica tion No.	Patent No.	Patent Date	Status	Title
United States of America	15/974527	08-May-2018	US2018-0321360 A1	10545222	28-Jan-2020	Granted	LIDAR DATA ACQUISITION AND CONTROL
United States of America	16/748498	21-Jan-2020	20200166613			Allowed	LIDAR DATA ACQUISITION AND CONTROL
United States of America	16/987060	06-Aug-2020	20200379094	11435446	06-Sep-2022	Granted	LIDAR SIGNAL ACQUISITION
United States of America	62/559783	18-Sep-2017				Expired	LIDAR SIGNAL ACQUISITION
United States of America	16/134000	18-Sep-2018	US2019-0178992 A1	10739444	11-Aug-2020	Granted	LIDAR SIGNAL ACQUISITION
United States of America	17/234672	19-Apr-2021	20210405196			Publishe d	MULTIPLE PIXEL SCANNING LIDAR
United States of America	62/344259	01-Jun-2016				Expired	MULTIPLE PIXEL SCANNING LIDAR
United States of America	15/610975	01-Jun-2017	20180002045	10393877	27-Aug-2019	Granted	MULTIPLE PIXEL SCANNING LIDAR
United States of America	16/546131	20-Aug-2019	20200142070			Publishe d	MULTIPLE PIXEL SCANNING LIDAR
United States of America	16/546184	20-Aug-2019	20190369257	10983218	20-Apr-2021	Granted	MULTIPLE PIXEL SCANNING LIDAR
United States of America	16/546206	20-Aug-2019	20190369258			PUB: RCE	MULTIPLE PIXEL SCANNING LIDAR
United States of America	16/909306	23-Jun-2020	20200319343	11561305	24-Jan-2023	Granted	MULTIPLE PIXEL SCANNING LIDAR
United States of America	16/842491	07-Apr-2020	20200233089	11550056	10-Jan-2023	Granted	MULTIPLE PIXEL SCANNING LIDAR
United States of America	16/854755	21-Apr-2020	20200249321	11137480	05-Oct-2021	Granted	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America	16/905843	18-Jun-2020	20200319310			Allowed	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America	16/905849	18-Jun-2020	20200319311	11550036	10-Jan-2023	Granted	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America	16/909846	23-Jun-2020	20200319312			Publishe d	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America	62/289277	31-Jan-2016				Expired	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America	15/339790	31-Oct-2016	20170219695	10627490	21-Apr-2020	Granted	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America	17/493791	04-Oct-2021				Abando ned	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING

Country Name	Applica tion No.	Filing Date	Publica tion No.	Patent No.	Patent Date	Status	Title
United States of America						Unfiled	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America						Unfiled	MULTIPLE PULSE, LIDAR BASED 3-D IMAGING
United States of America	62/558256	13-Sep-2017				Expired	MULTIPLE RESOLUTION, SIMULTANEOUS LOCALIZATION AND MAPPING BASED ON 3-D LIDAR MEASUREMENTS
United States of America	16/130610	13-Sep-2018	US2019-0079193 A1			Allowed	MULTIPLE RESOLUTION, SIMULTANEOUS LOCALIZATION AND MAPPING BASED ON 3-D LIDAR MEASUREMENTS
United States of America	16/909926	23-Jun-2020	20200319338	11255728	22-Feb-2022	Granted	SYSTEMS AND METHODS FOR EFFICIENT MULTI-RETURN LIGHT DETECTORS
United States of America	15/835374	07-Dec-2017	20190179018	10690773	23-Jun-2020	Granted	SYSTEMS AND METHODS FOR EFFICIENT MULTI-RETURN LIGHT DETECTORS
United States of America	17/675997	18-Feb-2022	20230003579			Publishe d	SYSTEMS AND METHODS FOR EFFICIENT MULTI-RETURN LIGHT DETECTORS
United States of America						Unfiled	SYSTEMS AND METHODS FOR EFFICIENT MULTI-RETURN LIGHT DETECTORS
United States of America	17/713121	04-Apr-2022	20230052333			Publishe d	SYSTEMS AND METHODS FOR IMPROVING DETECTION OF A RETURN SIGNAL IN A LIGHT RANGING AND DETECTION SYSTEM
United States of America	15/835983	08-Dec-2017	20190178991	11294041	05-Apr-2022	Granted	SYSTEMS AND METHODS FOR IMPROVING DETECTION OF A RETURN SIGNAL IN A LIGHT RANGING AND DETECTION SYSTEM
United States of America	16/931218	16-Jul-2020	20200348401			To be Aband	SYSTEMS AND METHODS FOR IMPROVING DETECTION OF A RETURN SIGNAL IN A LIGHT RANGING AND DETECTION SYSTEM
United States of America	15/803494	03-Nov-2017	20190137549			Publishe d	SYSTEMS AND METHODS FOR MULTI-TIER CENTROID CALCULATION
United States of America	62/260205	25-Nov-2015				Expired	THREE DIMENSIONAL LIDAR SYSTEM WITH TARGETED FIELD OF VIEW
United States of America	15/360903	23-Nov-2016	20170146640	10539661	21-Jan-2020	Granted	THREE DIMENSIONAL LIDAR SYSTEM WITH TARGETED FIELD OF VIEW
United States of America	16/746896	19-Jan-2020	20200150242			Publishe d	THREE DIMENSIONAL LIDAR SYSTEM WITH TARGETED FIELD OF VIEW
United States of America	16/459557	01-Jul-2019		10613203	07-Apr-2020	Granted	INTERFERENCE MITIGATION FOR LIGHT DETECTION AND RANGING
United States of America	16/841506	06-Apr-2020	20210003681			Publishe d	INTERFERENCE MITIGATION FOR LIGHT DETECTION AND RANGING
United States of America	16/112273	24-Aug-2018	20200064452			Publishe d	SYSTEMS AND METHODS FOR MITIGATING OPTICAL CROSSTALK IN A LIGHT RANGING AND DETECTION SYSTEM
United States of America	16/134780	18-Sep-2018	20200088844			Publishe d	SYSTEMS AND METHODS FOR IMPROVING DETECTION OF A RETURN SIGNAL IN A

Country Name	Applica tion No.	Filing Date	Publica tion No.	Patent No.	Patent Date	Status	Title
							LIGHT RANGING AND DETECTION SYSTEM WITH PULSE ENCODING
United States of America	17/392062	02-Aug-2021	20210367563			Publishe d	SYSTEMS AND METHODS FOR TIA BASE CURRENT DETECTION AND COMPENSATION
United States of America	16/181523	06-Nov-2018	20200144971	11082010	03-Aug-2021	Granted	SYSTEMS AND METHODS FOR TIA BASE CURRENT DETECTION AND COMPENSATION
United States of America	16/128373	11-Sep-2018	20200081104	11493615	08-Nov-2022	Granted	SYSTEMS AND METHODS FOR DETECTING AN ELECTROMAGNETIC SIGNAL IN A CONSTANT INTERFERENCE ENVIRONMENT
United States of America	16/241825	07-Jan-2019	20200218260	11327490	10-May-2022	Granted	DYNAMIC CONTROL AND CONFIGURATION OF AUTONOMOUS NAVIGATION SYSTEMS
United States of America	16/241849	07-Jan-2019	20200218062			Publishe d	SYSTEMS AND METHODS FOR A DUAL AXIS RESONANT SCANNING MIRROR
United States of America	16/241956	07-Jan-2019	20200217959	11448756	20-Sep-2022	Granted	APPLICATION SPECIFIC INTEGRATED CIRCUITS FOR LIDAR SENSOR AND MULTI-TYPE SENSOR SYSTEMS
United States of America						Unfiled	SYSTEMS AND METHODS FOR A CONFIGURABLE SENSOR SYSTEM
United States of America	16/241963	07-Jan-2019	20200217954			Publishe d	SYSTEMS AND METHODS FOR A CONFIGURABLE SENSOR SYSTEM
United States of America	62/851447	22-May-2019				Expired	CONDUCTIVE ALIGNMENT ELEMENT FOR LIDAR SYSTEMS
United States of America	16/881966	22-May-2020	20200379117	11169267	09-Nov-2021	Granted	APPARATUS AND METHODS FOR ALIGNING DEVICES FOR LIDAR SYSTEMS
United States of America	17/521430	08-Nov-2021	20220057510			Publishe d	APPARATUS AND METHODS FOR ALIGNING DEVICES FOR LIDAR SYSTEMS
United States of America	17/017467	10-Sep-2020	202102318096			Publishe d	SYSTEMS AND METHODS FOR MITIGATING AVALANCHE PHOTODIODE (APD) BLINDING
United States of America	15/898132	15-Feb-2018	20190250256	10775486	15-Sep-2020	Granted	SYSTEMS AND METHODS FOR MITIGATING AVALANCHE PHOTODIODE (APD) BLINDING
United States of America	15/897814	15-Feb-2018	20190252916	10530185	07-Jan-2020	Granted	SYSTEMS AND METHODS FOR TRANSMITTING DATA VIA A CONTACTLESS CYLINDRICAL INTERFACE
United States of America	16/735548	06-Jan-2020	20200144859	11231487	25-Jan-2022	Granted	SYSTEMS AND METHODS FOR TRANSMITTING DATA VIA A CONTACTLESS CYLINDRICAL INTERFACE
United States of America	17/583106	24-Jan-2022	20220146642			Publishe d	SYSTEMS AND METHODS FOR TRANSMITTING DATA VIA A CONTACTLESS CYLINDRICAL INTERFACE
United States of America	16/988420	07-Aug-2020	20210041567			Allowed	APPARATUS AND METHODS FOR SAFE PULSED LASER OPERATION

Country Name	Applica tion No.	Filing Date	Publica tion No.	Patent No.	Patent Date	Status	Title
United States of America	62/884102	07-Aug-2019				Expired	APPARATUS AND METHODS FOR OPTICAL POWER CONTROL FOR EYE SAFE PULSED LASER OPERATION
United States of America	62/615,877	10-Jan-2018				Expired	LIDAR BASED DISTANCE MEASUREMENTS WITH TIERED POWER CONTROL
United States of America	16/244980	10-Jan-2019	20200025896	11415681	16-Aug-2022	Granted	LIDAR BASED DISTANCE MEASUREMENTS WITH TIERED POWER CONTROL
United States of America	17/887967	15-Aug-2022	20230042797			Publishe d	LIDAR BASED DISTANCE MEASUREMENTS WITH TIERED POWER CONTROL
United States of America	16/890951	02-Jun-2020	20200292678			Allowed	MULTI-CHANNEL LIDAR ILLUMINATION DRIVER
United States of America	16/134068	18-Sep-2018	20200088851	10712434	14-Jul-2020	Granted	MULTI-CHANNEL LIDAR ILLUMINATION DRIVER
United States of America	16/852128	17-Apr-2020	20210325520			Publishe d	SYSTEMS AND METHODS FOR CALIBRATING A LIDAR DEVICE
United States of America	17/240307	26-Apr-2021	20210248768			Publishe d	GENERATION OF STRUCTURED MAP DATA FROM VEHICLE SENSORS AND CAMERA ARRAYS
United States of America	16/254508	22-Jan-2019	20200234459	11004224	11-May-2021	Granted	GENERATION OF STRUCTURED MAP DATA FROM VEHICLE SENSORS AND CAMERA ARRAYS
United States of America	62/535428	21-Jul-2017				Expired	CAMERA-BASED, REGISTERED 3D POINT CLOUD GENERATION SYSTEM
United States of America	17/318223	12-May-2021	20220365213			Publishe d	LINEARIZATION OF CHIRP IN COHERENT LIDAR SYSTEMS
United States of America	17/318441	12-May-2021	20220365184			Publishe d	SYSTEMS AND METHODS FOR CHIRP LINEARIZATION USING TWO CONTINUOUS WAVE (CW) LASERS
United States of America	17/318535	12-May-2021	20220365185			Publishe d	SYSTEMS AND METHODS FOR CHIRP LINEARIZATION USING PARTIAL FIELD-OF-VIEW (FOV) AS A REFERENCE REFLECTOR
United States of America	17/318624	12-May-2021	20220373681			Publishe d	SYSTEMS AND METHODS FOR CHIRP LINEARIZATION USING A PARTIAL REFLECTOR AS A REFERENCE REFLECTOR
United States of America	17/318768	12-May-2021	20220373667			Publishe d	SYSTEMS AND METHODS FOR CHIRP LINEARIZATION USING EXTERNAL REFLECTOR(S) AS A REFERENCE REFLECTOR
United States of America						Unfiled	IN-SITU LINEARIZATION OF CHIRP USING A SECONDARY CW LASER FOR COHERENT LIDARS
United States of America	63/025138	14-May-2020				Expired	3D LIDAR WITH SCANNING MIRROR MECHANISM

Country Name	Applica tion No.	Filing Date	Publica tion No.	Patent No.	Patent Date	Status	Title
United States of America	17/392080	02-Aug-2021	20210364609			Published	SCANNING MIRROR MECHANISMS FOR LIDAR SYSTEMS, AND RELATED METHODS AND APPARATUS
United States of America						Unfiled	APPARATUS AND METHODS FOR SAFE PULSED LASER OPERATION
United States of America						Unfiled	LASER RADAR
United States of America	17/255948	23-Dec-2020	20210364608			Published	LASER RADAR
United States of America	16/827182	23-Mar-2020	20200379096	10908268	02-Feb-2021	Granted	METHOD FOR IDENTIFICATION OF A NOISE POINT USED FOR LIDAR, AND LIDAR SYSTEM
United States of America	17/146177	11-Jan-2021	20210208261			Published	METHOD FOR IDENTIFICATION OF A NOISE POINT USED FOR LIDAR, AND LIDAR SYSTEM
United States of America	17/470612	09-Sep-2021	20220075038			Published	APPARATUS AND METHODS FOR LONG RANGE, HIGH RESOLUTION LIDAR
United States of America	63/076345	09-Sep-2020				Expired	APPARATUS AND METHODS FOR LONG RANGE, HIGH RESOLUTION LIDAR
United States of America	63/169174	31-Mar-2021				Expired	HIGH-RANGE, LOW-POWER LIDAR SYSTEMS, AND RELATED METHODS AND APPARATUS
United States of America	17/306885	03-May-2021	20220350000			Published	LIDAR SYSTEMS FOR NEAR-FIELD AND FAR-FIELD DETECTION, AND RELATED METHODS AND APPARATUS
United States of America	17/710956	31-Mar-2022	20220326763			Published	LIDAR-BASED IMMERSIVE 3D REALITY CAPTURE SYSTEMS, AND RELATED METHODS AND APPARATUS
United States of America	63/278998	12-Nov-2021				Expired	LIDAR-BASED IMMERSIVE 3D REALITY CAPTURE SYSTEMS, AND RELATED METHODS AND APPARATUS
United States of America	63/169180	31-Mar-2021				Expired	LIDAR-BASED IMMERSIVE 3D REALITY CAPTURE SYSTEMS, AND RELATED METHODS AND APPARATUS
United States of America	63/239807	01-Sep-2021				Expired	HIGH RESOLUTION COHERENT LIDAR SYSTEMS, AND RELATED METHODS AND APPARATUS

EXHIBIT C

Trademarks

COUNTRY	TRADEMARK	STATUS	APP DATE	APP NO	REG DATE	REG NO
United States	ALPHA PRIME (Class 9)	Registered	Oct 29, 2020	90286530	Jul 20, 2021	6427071
United States	ALPHA PUCK (CLASS 9)	Registered	Jan 15, 2019	88/261,829	Apr 14, 2020	6031892
United States	HIGH DEFINITION LIDAR (Class 9)	Registered	Mar 31, 2008	77/436,186	Jul 28, 2009	3662148
United States	MISCELLANEOUS DESIGN (HOUSING) (Class 9)	Registered	Jun 12, 2012	85/649,245	Apr 1, 2014	4508293
United States	MISCELLANEOUS DESIGN (PUCK) (CLASS 9)	Registered	Jul 31, 2017	87/550,092	Feb 27, 2018	5412410
United States	REINVENTING THE DESIGNATED DRIVER (CLASS 42)	Registered	Feb 22, 2018	87/807,783	Feb 12, 2019	5672884
United States	VELARRAY (CLASS 42)	Registered	Sep 7, 2017	87/600,211	Nov 10, 2020	6195530
United States	VELLA (Class 42)	Registered	Jun 23, 2020	90017318	Sep 7, 2021	6480788
United States	VELLA (Class 9)	Registered	Oct 29, 2020	90286561	May 3, 2022	6720493
United States	VELODYNE (CLASS 9)	Registered	Mar 16, 2016	86/942,880	Nov 8, 2016	5077038
United States	VELODYNE LIDAR (Class 9)	Registered	Mar 16, 2016	86/942,851	Nov 8, 2016	5077034
United States	WORLD SAFETY SUMMIT ON AUTONOMOUS TECHNOLOGY (Class 41)	Registered	Nov 5, 2019	88680835	Jul 14, 2020	6103935
United States	YOUR SAFETY IS WHAT DRIVES US (CLASS 42)	Registered	Aug 1, 2017	87/552,035	Feb 27, 2018	5412485

EXHIBIT D

Mask Works

None.