

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM743702

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
GEO SEMICONDUCTOR INC.		07/26/2022	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	EAST WEST BANK		
Street Address:	2350 MISSION COLLEGE BLVD., SUITE 988		
City:	SANTA CLARA		
State/Country:	CALIFORNIA		
Postal Code:	95054		
Entity Type:	CORPORATION: CALIFORNIA		
PROPERTY NUMBERS Total: 5			
Property Type	Number	Word Mark	
Registration Number:	4125415	GEO	
Registration Number:	4125410	GEO	
Registration Number:	4480188	AUTOCAL	
Registration Number:	4352340	EWARP	
Registration Number:	3002865	REALTA	
CORRESPONDENCE DATA			
Fax Number:	6506440520		
<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:	6506483802		
Email:	PATTY@PATTYCHENG.COM		
Correspondent Name:	PATTY CHENG		
Address Line 1:	2625 MIDDLEFIELD RD., #215		
Address Line 4:	PALO ALTO, CALIFORNIA 94306		
NAME OF SUBMITTER:	Patty Cheng		
SIGNATURE:	/s/ Patty Cheng		
DATE SIGNED:	07/26/2022		
Total Attachments: 8			
source=Geo Semi - IP Security Agreement#page1.tif			

OP \$140.00 4125415

source=Geo Semi - IP Security Agreement#page2.tif
source=Geo Semi - IP Security Agreement#page3.tif
source=Geo Semi - IP Security Agreement#page4.tif
source=Geo Semi - IP Security Agreement#page5.tif
source=Geo Semi - IP Security Agreement#page6.tif
source=Geo Semi - IP Security Agreement#page7.tif
source=Geo Semi - IP Security Agreement#page8.tif

INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT is entered into as of July 26, 2022 by and between **Geo Semiconductor Inc.**, a Delaware corporation (“**Grantor**”) and **East West Bank**, a California corporation (“**Lender**”).

RECITALS

Lender has agreed to make certain advances of money and to extend certain financial accommodations to Grantor in the amounts and manner set forth in that certain Loan and Security Agreement by and between Lender and Grantor dated as of the date hereof and as amended from time to time (the “**Loan Agreement**”). Capitalized terms used herein have the meaning assigned in the Loan Agreement. Lender is willing to make the financial accommodations to Grantor, but only upon the condition, among others, that Grantor grants to Lender a security interest in all of Grantor’s right title, and interest in, to and under all of the Collateral whether presently existing or hereafter acquired.

NOW, THEREFORE, Grantor agrees as follows:

AGREEMENT

To secure performance of Grantor’s obligations under the Loan Agreement, Grantor grants to Lender a security interest in all of Grantor’s right, title and interest in Grantor’s intellectual property (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits). This security interest is granted in conjunction with the security interest granted to Lender under the Loan Agreement. Each right, power and remedy of Lender provided for herein or in the Loan Agreement shall not preclude the simultaneous or later exercise by Lender of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which Grantor, as of the date hereof, has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable. Grantor hereby authorizes Lender to (a) modify this Agreement unilaterally by amending the exhibits to this Agreement to include any Intellectual Property 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.

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. In the event that any signature to this Agreement is delivered by facsimile transmission or by e-mail delivery of a “.pdf” format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or “.pdf” signature page were an original thereof.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

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

Address of Grantor:

101 Metro Drive, Suite 620
San Jose, CA 95110
Attn: Dave Orton, CEO

GEO SEMICONDUCTOR INC.

By: 

Print Name: David G. ORTON

Title: CEO

Address of Lender:

2350 Mission College Blvd., Suite 988
Santa Clara, CA 95054
Attn: Kelvin Chan

EAST WEST BANK

By: _____

Print Name: _____

Title: _____

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

Address of Grantor:

101 Metro Drive, Suite 620
San Jose, CA 95110
Attn: Dave Orton, CEO

GEO SEMICONDUCTOR INC.

By: _____

Print Name: _____

Title: _____

Address of Lender:

2350 Mission College Blvd., Suite 988
Santa Clara, CA 95054
Attn: Kelvin Chan

EAST WEST BANK

By: _____

Print Name: Kelvin Chan

Title: Managing Director

EXHIBIT A

COPYRIGHTS

Please Check Box if No Copyrights Exist

Title	Registration Number	Registration Date
--------------	----------------------------	--------------------------

EXHIBIT B**PATENTS**

Title	Patent Number
GEOMETRIC-ARITHMETIC PARALLEL PROCESSOR	4,739,474
PARALLEL DATA PROCESSOR	5,421,019
REAL-TIME IMAGE PROCESSOR	5,606,707
METHODS AND APPARATUS FOR PERFORMING FAST FLOATING POINT OPERATIONS	5,966,085
PATTERN GENERATION AND SHIFT PLANE OPERATIONS FOR A MESH CONNECTED COMPUTER	6,067,609
PARALLEL DATA PROCESSOR	6,073,185
INTERFACE FOR PROCESSING ELEMENT ARRAY	6,085,304
METHODS AND APPARATUS FOR PERFORMING FAST DIVISION OPERATIONS IN BIT-SERIAL PROCESSORS	6,138,137
DATA FLOW INTEGRATED CIRCUIT ARCHITECTURE	6,145,073
METHODS AND APPARATUS FOR PERFORMING FAST MULTIPLICATION OPERATIONS IN BIT-SERIAL PROCESSORS	6,167,421
DIRECTLY ACCESSING LOCAL MEMORIES OF ARRAY PROCESSORS FOR IMPROVED REAL-TIME CORNER TURNING	6,173,388
INPUT/OUTPUT SUPPORT FOR PROCESSING IN A MESH CONNECTED COMPUTER	6,185,667
MESH CONNECTED COMPUTER	6,212,628
MESH CONNECTED COMPUTER	6,275,920
DISTRIBUTION, PROCESSING, AND RECONSTRUCTION OF VARIABLE-SIZED IMAGES USING MULTIPLE PROCESSOR	6,425,026
METHOD FOR MEASURING AND ANALYZING DIGITAL VIDEO QUALITY	6,577,764
AUTOMATIC KEYSTONE CORRECTION SYSTEM AND METHOD	6,877,863
MULTITHREADED DATA/CONTEXT FLOW PROCESSING ARCHITECTURE	6,889,310
METHOD AND SYSTEM FOR PROCESSING TWO-DIMENSIONAL IMAGE DATA	6,917,363
SYSTEM, SOFTWARE AND METHOD FOR IMPLEMENTING AN INTEGRATED, DEVICE INDEPENDENT, PACKET TELEPHONY FRAMEWORK SOFTWARE SOLUTION	6,985,480
AUTOMATIC CODE GENERATION FOR INTEGRATED CIRCUIT DESIGN	6,996,799
RANDOM ACCESS MEMORY CONTROLLER WITH OUT OF ORDER EXECUTION	7,093,094
METHOD AND SYSTEM FOR PROCESSING A NON-LINEAR TWO DIMENSIONAL SPATIAL TRANSFORMATION	7,126,616
METHOD AND APPARATUS FOR ENTROPY CODING	7,199,735
SHORT THROW PROJECTION SYSTEM AND METHOD	7,239,360
RANDOM ACCESS MEMORY CONTROLLER WITH OUT OF ORDER EXECUTION	7,281,110
METHOD AND APPARATUS FOR ENTROPY CODING	7,281,771
SYSTEM AND METHOD FOR REPRESENTING A GENERAL TWO DIMENSIONAL SPATIAL TRANSFORMATION	7,324,706
SYSTEM AND METHOD FOR CORRECTING MULTIPLE AXIS DISPLACEMENT DISTORTION	7,352,913
DYNAMIC WARP MAP GENERATION SYSTEM AND METHOD	7,359,575
IMAGE PROJECTION SYSTEM AND METHOD	7,384,158
IMAGE PROJECTION SYSTEM AND METHOD FOR ELECTRONIC CORRECTION OF OPTICAL ANOMALIES	7,474,799
METHOD AND APPARATUS FOR READING AND WRITING PIXEL- ALIGNED SUBFRAMES IN A FRAME BUFFER	7,564,462
METHOD AND APPARATUS FOR MANAGEMENT OF BIT PLANE RESOURCES	7,573,481
PANORAMIC VISION SYSTEM AND METHOD	7,576,767

Title	Patent Number
METHODS AND/OR APPARATUS FOR DETECTING EDGES OF BLOCKS IN IMAGE PROCESSING	7,590,288
METHOD AND APPARATUS FOR HIGH DENSITY STORAGE AND HANDLING OF BIT-PLANE DATA	7,593,016
SYSTEM AND METHOD FOR GENERATING A FIXED POINT APPROXIMATION TO NONLINEAR FUNCTIONS	7,657,589
METHOD AND APPARATUS FOR IMAGE DECODER POST-PROCESSING USING IMAGE PRE- PROCESSING AND IMAGE ENCODING INFORMATION	7,684,626
ULTRA-THIN IMAGE PROJECTION SYSTEM	7,714,943
METHOD AND/OR APPARATUS FOR DETECTING HOMOGENEITY OF BLOCKS IN IMAGE PROCESSING SYSTEM	7,715,652
METHOD AND/OR ARCHITECTURE FOR CONTROLLING ENCODING PARAMETERS USING INTEGRATED INFORMATION FROM CAMERA ISP	7,733,380
METHOD AND APPARATUS FOR DEPENDENT CODING IN LOW-DELAY COMPRESSION	7,734,106
HARDWARE MULTITHREADING SYSTEMS AND METHODS	7,765,547
SYSTEM AND METHOD FOR TRANSFORM CODING RANDOMIZATION	7,778,476
INTEGRATED CAMERA IMAGE SIGNAL PROCESSOR AND VIDEO ENCODER	7,859,574
ITERATION BASED METHOD AND/OR APPARATUS FOR OFFLINE HIGH QUALITY ENCODING OF MULTIMEDIA CONTENT	7,953,147
SYSTEM AND METHOD FOR PERFORMING OPTIMIZED QUANTIZATION VIA QUANTIZATION RE- SCALING	8,031,768
COLOR AND BRIGHTNESS DISTORTION CORRECTION SYSTEM AND METHOD	8,055,070
VIDEO ENCODING MODE DECISIONS ACCORDING TO CONTENT CATEGORIES	8,081,682
METHOD AND APPARATUS OF ADAPTIVE LAMBDA ESTIMATION IN LAGRANGIAN RATE- DISTORTION OPTIMIZATION FOR VIDEO CODING	8,094,716
LENS OPTIMIZATION USING ELECTRONIC ABERRATION CORRECTION	8,116,008
VIDEO ENCODING STATISTICS EXTRACTION USING NON-EXCLUSIVE CONTENT CATEGORIES	8,126,283
METHOD AND APPARATUS FOR QP MODULATION BASED ON PERCEPTUAL MODELS FOR PICTURE ENCODING	8,135,062
METHOD AND/OR ARCHITECTURE FOR MOTION ESTIMATION USING INTEGRATED INFORMATION FROM CAMERA ISP	8,135,068
ENCODING CONTROL USING NON-EXCLUSIVE CONTENT CATEGORIES	8,149,909
METHOD AND/OR APPARATUS FOR MULTIPLE PASS DIGITAL IMAGE STABILIZATION	8,149,911
MEMORY WORD ARRAY ORGANIZATION AND PREDICTION COMBINATION FOR MEMORY ACCESS	8,165,219
METHODS AND/OR APPARATUS FOR IMPLEMENTING RATE DISTORTION OPTIMIZATION IN VIDEO COMPRESSION	8,175,150
SYSTEMS AND METHODS FOR ADAPTIVE ECHO CANCELLATION	8,175,261
METHOD, SYSTEM AND DEVICE FOR IMPROVING VIDEO QUALITY THROUGH IN-LOOP TEMPORAL PRE-FILTERING	8,218,655
METHOD AND/OR ARCHITECTURE FOR INTERLACED VIDEO RESAMPLING AND COLOR FORMAT CONVERSION USING COMBINED VERTICAL-TEMPORAL RESOLUTION EXTENSIONS	8,253,856
METHOD & APPARATUS FOR APPLYING ACCURATE PARAMETER ESTIMATION AND EFFICIENT FADE DETECTION IN WEIGHTED PREDICTION FOR VIDEO COMPRESSION	8,270,483
HIGH QUALITY LOW BITRATE VIDEO CODING BY ENABLING AND DISABLING A NON- RESIDUAL MODE	8,306,118
SYSTEM AND METHOD OF REDUCED-TEMPORAL-RESOLUTION UPDATE FOR VIDEO CODING AND QUALITY CONTROL	8,325,797

Title	Patent Number
ADAPTIVE MOTION ESTIMATION CACHE ORGANIZATION	8,325,798
METHOD AND APPARATUS FOR MODELING QUANTIZATION MATRICES FOR IMAGE/VIDEO ENCODING	8,326,068
MULTI-SERVICE CELLULAR PHONE NETWORK ACCESS TO DEVICE	8,326,349
SYSTEM AND METHOD FOR GENERATING A FIXED POINT APPROXIMATION TO NONLINEAR FUNCTIONS	8,356,066
SYSTEM AND METHOD FOR AUTOMATIC IMAGE CALIBRATION AND CORRECTION	8,406,562
SYSTEM AND METHOD FOR IMPROVING COLOR AND BRIGHTNESS UNIFORMITY OF BACKLIT LCD DISPLAYS	8,442,316
METHOD AND APPARATUS FOR FRAME, FIELD AND MACROBLOCK ADAPTIVE PROGRESSIVE/INTERLACE CODING SELECTION	8,483,268
SYSTEM AND METHOD FOR CALIBRATING ULTRA WIDE-ANGLE LENSES	8,619,248
PRESENCE AND/OR CAPABILITY BASED COMMUNICATION	8,625,766
HARDWARE MULTITHREADING SYSTEMS AND METHODS	8,640,129
METHOD AND OR APPARATUS FOR OPTIMIZED VIDEO CODING	8,687,699
MEMORY WORD ARRAY ORGANIZATION AND PREDICTION COMBINATION FOR MEMORY ACCESS	8,687,706
SYSTEM AND METHOD FOR AUTOMATIC IMAGE CALIBRATION AND CORRECTION	8,768,094
VIDEO QUALITY BY CONTROLLING INTER FAME ENCODING ACCORDING TO FRAME POSITION IN GOP	8774272
INTEGRATED CAMERA IMAGE SIGNAL PROCESSOR AND VIDEO ENCODER	8,803,995
I-FRAME SIZE ESTIMATION BASED ON EDGE STRENGTH	8,804,822
SKIPPED VIDEO DATA RECOVERY USING MULTIPLE ALTERNATIVE RECOVERY MODES	8,811,495
METHOD AND APPARATUS FOR SELECTING OPTIMAL VIDEO ENCODING PARAMETER CONFIGURATIONS	8,831,089
VIDEO ENCODING CONTROL USING NON-EXCLUSIVE CONTENT CATEGORIES	8,831,093
METHOD AND SYSTEM FOR FOLDING A SIMD ARRAY	8,898,432
BLOCK AND MODE REORDERING	8,976,870
METHOD, SYSTEM AND DEVICE FOR IMPROVING VIDEO QUALITY THROUGH IN-LOOP TEMPORAL PRE-FILTERING	9,025,676
METHODS AND/OR APPARATUS FOR CONTROLLING ZERO-RESIDUAL CODING IN PREDICTIVE IMAGE/VIDEO CODING	9,036,712
SYSTEM AND METHOD FOR ROBUST MOTION DETECTION	9,245,187
METHOD AND APPARATUS FOR QP MODULATION BASED ON PERCEPTUAL MODELS FOR PICTURE ENCODING	9,282,336
SYSTEM AND METHOD FOR ROBUST MOTION DETECTION (CONT.)	9,390,333
ADAPTIVE MOTION ESTIMATION CACHE ORGANIZATION	9,414,062
METHOD AND SYSTEM FOR AUTOMATIC PROJECTOR CALIBRATION	9,915,857
METHOD AND SYSTEM FOR ADAPTIVE PERSPECTIVE CORRECTION OF ULTRA WIDE-ANGLE LENS IMAGES	9,998,569
VEHICLE VISION SYSTEM	10,040,394
VEHICLE VISION SYSTEM (DIVISIONAL)	10,137,836
METHOD AND SYSTEM FOR AUTOMATIC PROJECTOR CALIBRATION (CONTINUATION)	10,901,309
METHOD AND/OR APPARATUS FOR MULTIPLE PASS DIGITAL IMAGE STABILIZATION	8,923,400

EXHIBIT C

TRADEMARKS

<u>Description</u>	<u>Serial Number</u>	<u>Registration Number</u>	<u>Application Date / Registration Date</u>
GEO	85391156	4125415	April 10, 2012
GEO	85391040	4125410	April 10, 2012
AUTOCAL	85903196	4480188	February 11, 2014
EWARP	85391047	4352340	June 18, 2013
CLOUD GEO	85903203		*
CLOUDGEO	85903202		*
VERICALL EDGE	78605942	3205074	*
REALTA	78369523	3002865	September 27, 2005
VERICALL	77928941		*

* — indicates dead, abandoned or cancelled trademark