

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7447984

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST	
CONVEYING PARTY DATA		
	Name	Execution Date
	CRESCENT COVE CAPITAL II, LP	07/21/2022
RECEIVING PARTY DATA		
Name:	GEO SEMICONDUCTOR, INC.	
Street Address:	101 METRO DRIVE, SUITE 620	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95110	
PROPERTY NUMBERS Total: 104		
Property Type	Number	
Patent Number:	4739474	
Patent Number:	5606707	
Patent Number:	6185667	
Patent Number:	6167421	
Patent Number:	6121628	
Patent Number:	6532264	
Patent Number:	6577764	
Patent Number:	7352913	
Patent Number:	6985480	
Patent Number:	7474799	
Patent Number:	7589738	
Patent Number:	7324706	
Patent Number:	8031768	
Patent Number:	7593147	
Patent Number:	7657589	
Patent Number:	7715652	
Patent Number:	8081682	
Patent Number:	8094716	
Patent Number:	8325798	
Patent Number:	8135062	

Property Type	Number
Patent Number:	7859574
Patent Number:	8831089
Patent Number:	8326068
Patent Number:	8253856
Patent Number:	7281771
Patent Number:	8116008
Patent Number:	8923400
Patent Number:	8270483
Patent Number:	8804822
Patent Number:	8898432
Patent Number:	8831093
Patent Number:	9025676
Patent Number:	5421019
Patent Number:	6085304
Patent Number:	6067609
Patent Number:	6138137
Patent Number:	6425026
Patent Number:	6275920
Patent Number:	6889310
Patent Number:	7126616
Patent Number:	7239360
Patent Number:	7384158
Patent Number:	7576767
Patent Number:	7765547
Patent Number:	7593016
Patent Number:	8774272
Patent Number:	7564462
Patent Number:	8149909
Patent Number:	7778476
Patent Number:	7199735
Patent Number:	7734106
Patent Number:	8306118
Patent Number:	9036712
Patent Number:	7281110
Patent Number:	7733380
Patent Number:	8055070
Patent Number:	8175150
Patent Number:	8406562

Property Type	Number
Patent Number:	8356066
Patent Number:	8803995
Patent Number:	8619248
Patent Number:	9414062
Patent Number:	6073185
Patent Number:	5966085
Patent Number:	6173388
Patent Number:	6145073
Patent Number:	6563550
Patent Number:	6996799
Patent Number:	6917363
Patent Number:	7093094
Patent Number:	6877863
Patent Number:	8165219
Patent Number:	7064770
Patent Number:	7359575
Patent Number:	8325797
Patent Number:	7573481
Patent Number:	8218655
Patent Number:	8126283
Patent Number:	7590288
Patent Number:	7684626
Patent Number:	8483268
Patent Number:	8625766
Patent Number:	8976870
Patent Number:	7714943
Patent Number:	8811495
Patent Number:	8135068
Patent Number:	8175261
Patent Number:	8326349
Patent Number:	8640129
Patent Number:	8442316
Patent Number:	9282336
Patent Number:	8687706
Patent Number:	8768094
Patent Number:	9998659
Patent Number:	9245187
Patent Number:	10137836

Property Type	Number
Patent Number:	9915857
Patent Number:	10040394
Patent Number:	10901309
Patent Number:	9292336
Patent Number:	9390333
Application Number:	12027189
Application Number:	13419281
Application Number:	11331043

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 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: 07/23/2022

Total Attachments: 6

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RELEASE OF SECURITY INTEREST

This Release of Security Interest is made as of July 21, 2022, by CRESCENT COVE CAPITAL II, LP ("Secured Party"), in favor of GEO SEMICONDUCTOR, INC., a Delaware corporation ("Company"), with its principal place of business located at 101 Metro Drive, Suite 620, San Jose, CA 95110.

Recitals

WHEREAS, Company granted to Secured Party a security interest in the intellectual property of Company, including without limitation the patent items listed on Schedule A attached hereto (collectively, the "Intellectual Property"), under an Assignment for Security – Patents dated as of May 15, 2019 (the "Security Agreement"), which was recorded with the US Patent and Trademark Office on May 31, 2019 at Reel Number 049337 and Frame Number 004).

WHEREAS, Company has no outstanding obligations to Secured Party under the terms of the Security Agreement, Secured Party agrees to release its security interest in the Intellectual Property.

Agreement

NOW THEREFORE, Secured Party hereby agrees that the Security Agreement is terminated and Secured Party terminates and releases its security interest in the Intellectual Property and reassigns to Company, without warranty or recourse, all interest of Secured Party in the Intellectual Property.

SECURED PARTY:

CRESCENT COVE CAPITAL II, LP

By: 

Name: Jun Hong Heng

Title: Managing Member

SCHEDULE A

PATENTS

Patent Registrations

Description	Patent No.	Registration Date
Geometric-Arithmetic Parallel Processor	4739474	4/19/1988
Parallel Data Processor	5421019	5/30/1995
Real-Time Image Processor	5606707	2/25/1997
Methods and Apparatus for Performing Fast Floating Point Operations	5966085	10/12/1999
Pattern Generation and Shift Plane Operations for a Mesh Connected Computer	6067609	5/23/2000
Parallel Data Processor	6073185	6/6/2000
Interface for Processing Element Array	6085304	7/4/2000
Methods and Apparatus for Performing Fast Division Operations in Bit-Serial Processors	6138137	10/24/2000
Data Flow Integrated Architecture	6145073	11/7/2000
Methods and Apparatus for Performing Fast Multiplication Operations in Bit-Serial Processors	6167421	12/26/2000
Directly Accessing Local Memories of Array Processors for Improved Real-Time Corner Turning Processing	6173388	1/9/2001
Input/Output Support for Processing in a Mesh Connected Computer	6185667	2/6/2001
Mesh Connected Computer	6212628	4/3/2001
Mesh Connected Computer	6275920	8/14/2001
Distribution, Processing and Reconstruction of Variable-Sized Images Using Multiple Processor Arrays	6425026	7/23/2002
Processing Sequential Video Images to Detect Image Motion Among Interlaced Video Fields or Progressive Video Images	6532364	3/11/2003
Detection of Progressive Frames in a Video Field Sequence	6563550	5/13/2003
Method for Measuring and Analyzing Digital Video Quality	6577764	6/10/2003

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Description	Patent No.	Registration Date
Automatic Keystone Correction System and Method	6877863	4/12/2005
Multithreaded Data / Context Flow Processing Architecture	6889310	5/3/2005
Method and System for Processing Two-Dimensional Image Data	6917363	7/12/2005
System, Software and Method for Implementing an Integrated, Device Independent, Packet Telephony Framework Solution	6985480	1/10/2006
Automatic Code Generation for Integrated Circuit Design	6996799	2/7/2006
Single-Pass Image Warping System and Method with Anisotropic Filtering	7064770	1/20/2006
Random Access Memory Controller with Out of Order Execution	7093094	8/15/2006
Method and System for Processing a Non-Linear Two Dimensional Spatial Transformation	7126616	10/24/2006
Method and Apparatus for Entropy Coding	7199735	4/3/2007
Short Throw Projection System and Method	7239360	7/3/2007
Random Access Memory Controller with Out of Order Execution	7281110	10/9/2007
Method and Apparatus for Entropy Coding	7281771	10/16/2007
System and Method for Representing a General Two Dimensional Spatial Transformation	7324706	1/29/2008
System and Method for Correcting Multiple Axis Displacement Distortion	7352913	4/1/2008
Dynamic Warp Map Generation System and Method	7359575	4/15/2008
Image Projection System and Method	7384158	6/10/2008
System and Method for Electronic Correction of Optical Anomalies	7474799	1/6/2009
Method and Apparatus for Reading and Writing Pixel-Aligned Subframes in a Frame Buffer	7564462	7/21/2009
Method and Apparatus for Management of Bit Plane Resources	7573481	8/11/2009
Panoramic Vision System and Method	7576767	8/18/2009
Cache Memory Management System and Method	7589738	9/15/2009
Method and/or Apparatus for Detecting Edges of Blocks in an Image Processing System	7590288	9/15/2009
Method and Apparatus for High Density Storage and Handling of Bit-Plane Data	7593016	9/22/2009
System and Method for Generating a Fixed Point Approximation to Nonlinear Functions	7657589	2/2/2010

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Description	Patent No.	Registration Date
Method and Apparatus for Image Decoder Post-Processing Using Image Pre-Processing and Image Encoding Information	7684626	3/23/2010
Ultra-Thin Image Projection System	7714943	1/11/2010
Method and/or Apparatus for Detecting Homogeneity of Blocks in an Image Processing System	7715652	5/11/2010
Method and/or Architecture for Controlling Encoding Parameters Using Integrated Information from Camera ISP	7733380	6/8/2010
Method and Apparatus for Dependent Coding in Low-Delay Video Compression	7734106	6/8/2010
Hardware Multithreading Systems with State Registers Having Thread Profiling Data	7765547	7/27/2010
System and Method for Transform Coding Randomization	7778476	8/17/2010
Integrated Camera Image Signal Processor and Video Encoder	7859574	12/28/2010
Iteration Based Method and/or Apparatus for Offline High Quality Encoding of Multimedia Content	7953147	5/31/2011
System and Method for Performing Optimized Quantization Via Quantization Re-Scaling	8031768	10/4/2001
Color and Geometry Distortion Correction System and Method	8055070	11/8/2011
Video Encoding Mode Decisions According to Content Categories	8081682	12/20/2011
Method and Apparatus of Adaptive Lambda Estimation in Lagrangian Rate-Distortion Optimization for Video Coding	8094716	1/10/2012
System and Method for Lens Performance Optimization Using Electronic Aberration Correction	8116008	2/14/2012
Video Encoding Statistics Extraction Using Non-Exclusive Content Categories	8126283	2/28/2012
Method and Apparatus for QP Modulation Based on Perceptual Models for Picture Encoding	8135062	3/13/2012
Method and/or Architecture for Motion Estimation using Integrated Information from Camera ISP	8135068	3/13/2012
Video Encoding Control Using Non-Exclusive Content Categories	8149909	4/3/2012
Method and/or Apparatus for Multiple Pass Digital Image Stabilization	8149911	4/3/2012
Memory Word Array Organization and Prediction Combination for Memory Access	8165219	4/24/2012
Method and Apparatus for Implementing Rate Distortion Optimization in Video Compression	8175150	5/8/2012
Systems and Methods for Adaptive Echo Cancellation	8175261	5/8/2012
Method, System and Device for Improving Video Quality through In-Loop Temporal Pre-Filtering	8218655	7/10/2012

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Description	Patent No.	Registration Date
Method and/or Architecture for Interlaced Video Resampling and Color Format Conversion Using Combined Vertical-Temporal Resolution Extensions	8253856	8/28/2012
Method and Apparatus for Applying Accurate Parameter Estimation and Efficient Fade Detection in Weighted Prediction for Video Compression	8270483	9/18/2012
High Quality Low Bitrate Video Coding by Enabling and Disabling a Non-Residual Mode	8306118	11/6/2012
System and Method of Reduced-Temporal-Resolution Update for Video Coding and Quality Control	8325797	12/4/2012
Adaptive Motion Estimation Cache Organization	8325798	12/4/2012
Method and Apparatus for Modeling Quantization Matrices for Image/Video Encoding	8326068	12/4/2012
Multi-Service Cellular Phone Network Access Device	8326349	12/4/2012
System and Method for Generating a Fixed Point Approximation to Nonlinear Functions	8356066	1/15/2013
System and Method for Automated Calibration and Correction of Display Geometry and Color	8406562	3/26/2013
System and Method for Improving Color and Brightness Uniformity of Backlit LCD Displays	8442316	5/14/2013
Method and Apparatus for Frame, Field and Macroblock Adaptive Progressive/Interface Coding Selection	8483268	7/9/2013
System and Method for Calibrating Ultra Wide-Angle Lenses	8619248	12/31/2013
Presence and/or Capability Based Communication	8625766	1/7/2014
Hardware Multithreading Systems and Methods	8640129	1/28/2014
Method and/or Apparatus for Optimized Video Coding	8687699	4/1/2014
Memory Word Array Organization and Prediction Combination for Memory Access	8687706	4/1/2014
System and Method for Automated Calibration and Correction of Display Geometry and Color	8768094	7/1/2014
Video Quality by Controlling Inter Frame Encoding According to Frame Position in GOP	8774272	7/8/2014
Integrated Camera Image Signal Processor and Video Encoder	8803995	8/12/2014
I-Frame Size Estimation Based on Edge Strength	8804822	8/12/2014
Skipped Video Data Recovery Using Multiple Alternative Recovery Modes	8811495	8/10/2014
Method and Apparatus for Selecting Optimal Video Encoding Parameter Configurations	8831089	9/9/2014
Video Encoding Control Using Non-Exclusive Content Categories	8831093	9/9/2014

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Description	Patent No.	Registration Date
Folded SIMD Array Organized in Groups (PEGs) of Respective Array Segments, Control Signal Distribution Logic, and Local Memory	8898432	11/25/2014
Method and/or Apparatus for Multiple Pass Digital Image Stabilization	8923400	12/20/2014
Block and Mode Reordering to Facilitate Parallel Intra-Prediction and Motion Vector Prediction	8976870	3/10/2015
Method, System and Device for Improving Video Quality Through In-Loop Temporal Pre-Filtering	9025676	5/5/2015
Methods and/or Apparatus for Controlling Zero-Residual Coding in Predictive Image/Video Coding	9036712	5/19/2015
System and Method for Robust Motion Detection	9245187	1/26/2016
Method and Apparatus for QP Modulation Based on Perceptual Models for Picture Encoding	9282336	3/8/2016
System and Method for Robust Motion Detection	9390333	7/12/2016
Adaptive Motion Estimation Cache Organization	9414062	8/9/2016
System and Method for Automated Test-Pattern-Free Projection Calibration	9915857	3/13/2018
Method and System for Adaptive Perspective Correction of Ultra Wide-Angle Lens Images	9998659	6/12/2018
Vehicle Vision System	10040394	8/7/2018
Vehicle Vision System	10157836	11/27/2018

Patent Applications

Description	Application No.	Application Date
System and Method for Automated Test-Pattern-Free Projection Calibration	2018870120	01-12-2018
Method and/or Architecture for Motion Estimation Using Integrated Information from Camera ISP	13419281	03-13-2012
Designer-Style Dimmer Apparatus and Method	12027189	02-06-2008
Reduced Field Angle Projection Display System	11331043	01-13-2006

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