

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM592310

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
ANALYTICAL GRAPHICS, INC.		08/14/2020	Corporation: PENNSYLVANIA

RECEIVING PARTY DATA

Name:	SILICON VALLEY BANK
Street Address:	One Tower Bridge, 100 Front Street
Internal Address:	Suite 1340
City:	West Conshohocken
State/Country:	PENNSYLVANIA
Postal Code:	19428
Entity Type:	Corporation: CALIFORNIA

PROPERTY NUMBERS Total: 22

Property Type	Number	Word Mark
Registration Number:	4985630	3D TILES
Registration Number:	3413624	4D ANALYST
Registration Number:	5914324	A AGI
Registration Number:	2190735	CAT
Registration Number:	2183150	CLOSE APPROACH TOOL
Registration Number:	4867186	COMSPOC
Registration Number:	4644676	COMSPOC COMMERCIAL SPACE OPERATIONS CENT
Registration Number:	4867209	COMSPOC COMMERCIAL SPACE OPERATIONS CENT
Registration Number:	4718303	HIDEPH
Registration Number:	3736744	INSIGHT3D
Registration Number:	4738986	ODTK
Registration Number:	4739127	ODTK
Registration Number:	4144445	SATELLITE AR
Registration Number:	2244063	SATELLITE TOOL KIT
Registration Number:	4644533	SPACEBOOK
Registration Number:	4898079	SSA
Registration Number:	4898078	SSA SOFTWARE SUITE

OP \$565.00 4985630

TRADEMARK

Property Type	Number	Word Mark
Registration Number:	2323113	STK
Registration Number:	2470247	STK/ASTROGATOR
Registration Number:	1738121	STK SATELLITE TOOL KIT
Registration Number:	4270839	STK SYSTEMS TOOL KIT
Registration Number:	4228072	SYSTEMS TOOL KIT

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: 202-370-4750
Email: ipteam@cogencyglobal.com
Correspondent Name: Joanna McCall
Address Line 1: 1025 Vermont Ave NW, Suite 1130
Address Line 2: Cogency Global Inc.
Address Line 4: Washington, D.C. 20005

ATTORNEY DOCKET NUMBER:	1254970
NAME OF SUBMITTER:	Alicia Vellante, Corporate Parelegal
SIGNATURE:	/Alicia Vellante/
DATE SIGNED:	08/17/2020

Total Attachments: 28

- source=Closing Copy - E4. Amended and Restated IPSA (AGI & COMS) - Anaytical Graphics Inc. (August 2020)#page1.tif
- source=Closing Copy - E4. Amended and Restated IPSA (AGI & COMS) - Anaytical Graphics Inc. (August 2020)#page2.tif
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- source=Closing Copy - E4. Amended and Restated IPSA (AGI & COMS) - Anaytical Graphics Inc. (August 2020)#page6.tif
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AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Amended and Restated Intellectual Property Security Agreement (this "Agreement") is entered into as of August 14, 2020 by and between **SILICON VALLEY BANK**, a California corporation, with a loan production office located at One Tower Bridge, 100 Front Street, Suite 1340, West Conshohocken, Pennsylvania 19428 ("Bank") and **ANALYTICAL GRAPHICS, INC.** with its principal place of business located at 220 Valley Creek Boulevard, Exton, Pennsylvania 19341 ("Grantor"). This Agreement amends and restates in its entirety, and replaces, that certain Intellectual Property Security Agreement dated as of May 19, 2011, as amended and supplemented from time to time, between Grantor and Bank (the "Prior Agreement").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "Loans") in the amounts and manner set forth in that certain Amended and Restated Loan and Security Agreement by and among Bank, Grantor, and **COMSPOC CORPORATION**, a Delaware corporation, dated as of the date hereof (as the same may be amended, restated, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in its Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantor to Bank.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank 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 Grantor's obligations to Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

1. Grant of Security Interest. To secure Grantor's obligations to Bank, Grantor grants and pledges to Bank 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 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, extensions, 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 anything to the contrary herein, the Intellectual Property Collateral shall not include any United States intent-to-use trademark or service mark applications filed pursuant to Section 1(b) of the Lanham Act, 15 U.S.C. § 1051, at all times prior to the filing of a "Statement of Use" pursuant to Section 1(d) of the Lanham Act or an "Amendment to Allege Use" pursuant to Section 1(e) of the Lanham Act with respect thereto with the United States Patent and Trademark Office or otherwise.

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 Bank.

3. Authorization. Grantor hereby authorizes Bank 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.

4. 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 Bank 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.

5. Execution in Counterparts. This Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or in electronic (i.e., "pdf" or "tif" format) shall be effective as delivery of a manually executed counterpart of this Agreement. Each party hereto may execute this Agreement by electronic means and recognizes and accepts the use of electronic signatures and records by any other party hereto in connection with the execution and storage hereof.

6. Successors and Assigns. This Agreement will be binding on and shall inure to the benefit of the parties hereto and their respective successors and assigns.

7. Prior Agreement. Grantor and Bank hereby agree that, effective upon the execution and delivery of this Agreement by each such party, the terms and provisions of the Prior Agreement shall be and hereby are amended, restated and superseded in their entirety by the terms and provisions of this Agreement. Nothing herein contained shall be construed as a substitution or novation of the obligations of Borrower outstanding under the Prior Agreement or instruments securing the same, which obligations shall remain in full force and effect, except to the extent that the terms thereof are modified hereby or by instruments executed concurrently herewith. Nothing expressed or implied in this Agreement shall be construed as a release or other discharge of any Borrower from any of the obligations or any liabilities under the Prior Agreement. Borrower hereby confirms and agrees that to the extent that the Prior Agreement purports to assign or pledge to the Bank, or to grant to the Bank a security interest in or lien on, any collateral as security for the Obligations, such pledge, assignment or grant of the security interest or lien is hereby ratified and confirmed in all respects and shall remain effective as of the first date it became effective.

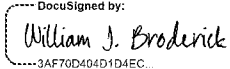
8. Governing Law. This Agreement and any claim, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the laws of the United States and the State of New York, without giving effect to any choice or conflict of law provision or rule (whether of the State of New York or any other jurisdiction).

[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:

ANALYTICAL GRAPHICS, INC.

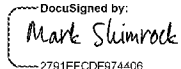
By:  _____
3AF70D404D1D4EC

Name: William J. Broderick

Title: Chief Financial Officer

BANK:

SILICON VALLEY BANK

By:  _____
2791FECDF974406

Name: Mark Shimrock

Title: Vice President

EXHIBIT A

Copyrights

Description

Registration/
Application
Number

Registration/
Application
Date

Title of Computer Program	Year Program was Completed	Date program "published" or offered to the public	Application ID and Date Filed	Copyright Registration No and Date
STK				
[Satellite Tool Kit : version 2.1]	1995	April 20, 1995		TX0004139752 Aug. 30, 1995
Satellite Tool Kit user's manual : version 2.1 for engineering workstations.	1995	April 20, 1995		TX0004122250 Aug. 30, 1995
Satellite tool kit (STK) tutorial : version 2.1.	1995	April 20, 1995		TX0004140227 Sept. 18, 1995
Coverage user's manual : version 1.0 for engineering workstations / authors, Sheila R. Marshall, Ralph C. Patrick.	1997	July 15, 1997		TX0004845776 Aug. 11, 1998
Coverage user's manual : version 1.0 for Windows 95/NT / authors, Sheila R. Marshall, Ralph C. Patrick.	1997	July 15, 1997		TX0004845777 Aug. 28, 1998
Satellite tool kit version 4.0.	1997	July 15, 1997		TX0004819010 Sept. 9, 1998
UNIX user's manual : STK.	1997	July 15, 1997		TX0004845774 Aug. 13, 1998
UNIX tutorial : STK.	1997	July 15, 1997		TX0004845782 Aug. 11, 1998
Windows 95/NT user's manual : STK.	1997	July 15, 1997		TX0004845773 Aug. 13, 1998
Windows 95/NT tutorial : STK.	1997	July 15, 1997		TX0004845781 Aug. 13, 1998
Satellite tool kit version 4.0.1.	1997	August 19, 1997		TX0004819009 Sept. 9, 1998
Satellite tool kit : version 4.0.2.	1997	December 15, 1997		TX0004851553 Aug. 13, 1998
STK/GIS user's manual : version 1.0 for engineering workstations.	1997	December 15, 1997		TX0004845780 Sept. 9, 1998
STK/GIS : user's manual : provides data exchange between GIS industry software and STK, allowing you to design, analyze, and create STK and GIS objects quickly and easily : version 1.0 for Windows 95/NT.	1997	December 15, 1997		TX0004258554 Sept. 14, 1998
Satellite tool kit version 4.0.3.	1998	February 17, 1998		TX0004819011 Aug. 13, 1998
STK installation instructions : for Windows & engineering workstations.	1998	April 24, 1998		TX0004845775 Aug. 13, 1998
Satellite toolkit : version 4.4.	2003	June 15, 2003		TX0006033536 Jul. 8, 2004
Satellite tool kit : version 5.0.	2003	May 9, 2003		TX0006093989 Jul. 8, 2004
Satellite tool kit version 6.0.	2004	June 4, 2004		TX0006026732 Jul. 8, 2004
Satellite tool kit STK version 7.1.1.	2006	July 3, 2006		TX0006963311 Apr. 22, 2009
Satellite tool kit STK version 8.1.3.	2008	March 6, 2008		TX0006976744 May 20, 2009
	2009	May 5, 2009		TX 8-560-063 Apr. 24, 2018
Satellite Tool Kit STK version 9.0			1-6521285362 04/24/2018	
Satellite Tool Kit STK version 9.1	2009	November 20, 2009	1-6521329596 04/24/2018	TX 8-560-066 Apr. 24, 2018
	2010	May 13, 2010		TX 8-560-068 Apr. 24, 2018
Satellite Tool Kit STK version 9.2			1-6521330199 04/24/2018	
	2012	November 15, 2012		TX 8-560-070 Apr. 24, 2018
Systems Tool Kit STK version 10.0			1-6521416442 04/24/2018	
Systems Tool Kit STK version 10.1	2014	February 19, 2014	1-6522382962 04/25/2018	TX 8-560-085 Apr. 25, 2018

Title of Computer Program	Year Program was Completed	Date program "published" or offered to the public	Application ID and Date Filed	Copyright Registration No and Date
Systems Tool Kit STK version 11.0	2015	December 1, 2015	1-6522383116 04/25/2018	TX 8-560-094 Apr. 25, 2018
Systems Tool Kit STK version 11.1	2016	June 30, 2016	1-6524661262 04/25/2018	TX 8-560-100 Apr. 25, 2018
Systems Tool Kit STK version 11.2	2017	April 19, 2017	1-6524661846 04/25/2018	TX 8-560-104 Apr. 25, 2018
Systems Tool Kit STK version 11.3	2017	November 10, 2017	1-6524661969 04/25/2018	TX 8-560-107 Apr. 25, 2018
Systems Tool Kit STK version 11.4	2018	April 23, 2018	1-6477754987 04/02/2019	TX 8-727-917 April 2, 2019
Systems Tool Kit STK version 11.5	2018	November 6, 2018	1-7564953817 04/02/2019	TX 8-727-453 Apr. 2, 2019
Systems Tool Kit STK version 11.6	2019	March 29, 2019	1-8936180772 06/16/2020	TX 8-883-677 June 16, 2020
Systems Tool Kit STK version 11.7	2019	Sept. 16, 2019	1-8936180960 June 16, 2020	
Systems Tool Kit STK version 12.0	2020	April 26, 2020	1-8936181167 June 16, 2020	
STK/DIS				
STK/DIS user's manual : version 1.0 for engineering workstations.	1997	December 15, 1997		TX0004845778 Aug. 11, 1998
STK/DIS user's manual : version 1.0 for PCs.	1997	December 15, 1997		TX0004845779 Aug. 28, 1998
STK/OD				
STK/OD : a technical summary.	2002	No Date Recorded		TXu001035371 May 22, 2002
STK/OD : version 2.0.	2004	May 18, 2004		TX0006103065 Aug. 17, 2004
STK/PL				
Satellite tool kit/programmer's library (STK/PL) programmer's guide : version 2.1.	1995	April 20, 1995		TX0004139732 Aug. 30, 1995
[Satellite Tool Kit : programmer's library (STK/PL) : version 2.1]	1995	April 20, 1995		TX0004139753 Aug. 30, 1995
Satellite Tool Kit/Programmer's Library (STK/PL) : programmer's reference.	1995	September 18, 1995		TX0004141385 Sept. 18, 1995
STK/PL application interface : version 4.0 for Windows 95/NT 4.0 & engineering workstations : a complete set of STK class, extension and user interface functions to enhance STK functionality of integrate into custom applications / authors, Ralph C. Patrick.	1997	December 15, 1997		TX0004846313 Aug. 13, 1998
STK/PL astrodynamics & utilities : version 4.0 for Windows 95/NT 4.0 & engineering workstations : a complete set of astrodynamical, utility, database and graphics functions for extension and development of space-related applications / authors, Ralph C. Patrick.	1997	December 15, 1997		TX0004846312 Aug. 13, 1998
STK Parallel Computing Server				
STK Parallel Computing Server v2.0.0	2020	April 28, 2020	1-8924295192 June 12, 2020	TX 8-883-725 June 12, 2020
STK/VO				
STK/VO user's manual : version 3.0 for Windows 95/NT.	1998	February 17, 1998		TX0004845765 Aug. 17, 1998
STK/VO user's manual : version 3.0 for engineering workstations.	1998	February 17, 1998		TX0004845764 Aug. 21, 1998
Orbit Determination Tool Kit (ODTK)				

Title of Computer Program	Year Program was Completed	Date program "published" or offered to the public	Application ID and Date Filed	Copyright Registration No and Date
Orbit determination tool kit : version 3.01.	2004	October 5, 2004		TX0006063007 Oct. 26, 2004
Orbit Determination Tool Kit version 4	2005	June 13, 2005	1-6502930006 04/18/2018	TX 8-560-024 Apr. 18, 2018
Orbit Determination Tool Kit version 4.1.0	2005	December 1, 2005	1-6503007339 04/18/2018	TX 8-560-032 Apr. 18, 2018
Orbit Determination Tool Kit version 5.0.0	2007	February 5, 2007	1-6503007482 04/18/2018	TX 8-560-036 Apr. 18, 2018
Orbit Determination Tool Kit version 5.1.0	2007	November 21, 2007	1-6506338432 04/19/2018	TX 8-560-041 Apr. 19, 2018
Orbit Determination Tool Kit version 6.0.0	2009	May 4, 2009	1-6506338536 04/19/2018	TX 8-560-045 Apr. 19, 2018
Orbit Determination Tool Kit version 6.1.0	2011	April 12, 2011	1-6506338669 04/19/2018	TX 8-560-051 Apr. 19, 2018
Orbit Determination Tool Kit version 6.2.0	2013	May 2, 2013	1-6506338742 04/19/2018	TX 8-560-055 Apr. 19, 2018
Orbit Determination Tool Kit version 6.3.0	2013	November 13, 2013	1-6506338915 04/19/2018	TX 8-560-056 Apr. 19, 2018
Orbit Determination Tool Kit version 6.4.0	2015	February 3, 2015	1-6518142532 04/23/2018	TX 8-560-057 Apr. 23, 2018
Orbit Determination Tool Kit version 6.5.0	2017	May 24, 2017	1-6518142726 04/23/2018	TX 8-566-502 Apr. 23, 2018
Orbit Determination Tool Kit version 6.5.1	2017	September 20, 2017	1-6518142869 04/23/2018	TX 8-560-060 Apr. 23, 2018
Orbit Determination Tool Kit version 6.5.2	2018	April 21, 2018	1-7564953881 04/02/2019	TX 8-727-463 Apr. 2, 2019
Orbit Determination Tool Kit version 6.5.3	2018	June 14, 2018	1-7565732402 04/03/2019	TX 8-727-798 Apr. 3, 2019
Orbit Determination Tool Kit version 6.6.0	2018	November 8, 2018	1-7567920093 04/03/2019	TX 8-727-799 Apr. 3, 2019
Orbit Determination Tool Kit version 6.6.1	2019	March 27, 2019	1-8327972940 12/06/2019	TX 8-844-731 Dec. 6, 2019
Orbit Determination Tool Kit version 7.0.0	2019	Nov. 22, 2019	1-8327973127 12/06/2019	TX 8-844-742 Dec. 6, 2019
Orbit Determination Tool Kit 7.1.0	2020	May 27, 2020	1-8914313690 June 9, 2020	TX 8-879-327 June 9, 2020
STK Components				
AGI Components 2008 r1	2008	March 31, 2008	1-6481257542 04/11/2018	TX 8-559-887 Apr. 11, 2018
AGI Components 2009 r1	2009	March 12, 2009	1-6481257686 04/11/2018	TX 8-559-890 Apr. 11, 2018
AGI Components 2009 r3	2009	June 12, 2009	1-6481257889 04/11/2018	TX 8-559-893 Apr. 11, 2018
AGI Components 2010 r1	2010	February 24, 2010	1-6481258042 04/11/2018	TX 8-559-899 Apr. 11, 2018
AGI Components 2011 r6	2011	July 18, 2011	1-6484545252 04/12/2018	TX 8-559-910 Apr. 12, 2018
STK Components 2012 r5	2012	May 17, 2012	1-6484545416 04/12/2018	TX 8-559-914 Apr. 12, 2018
STK Components 2013 r4	2013	July 2, 2013	1-6487612702 04/13/2018	TX 8-559-942 Apr. 13, 2018
STK Components 2014 r2	2014	May 9, 2014	1-6487612886 04/13/2018	TX 8-559-945 Apr. 13, 2018
STK Components 2014 r5	2014	September 20, 2014	1-6487613009 04/13/2018	TX 8-559-982 Apr. 13, 2018
STK Components 2015 r3	2015	November 2, 2015	1-6487685412 04/13/2018	TX 8-559-999 Apr. 13, 2018
STK Components 2016 r2	2016	May 23, 2016	1-6487811346 04/13/2018	TX 8-560-004 Apr. 13, 2018
STK Components 2016 r3	2016	September 2, 2016	1-6487811459 04/13/2018	TX 8-560-008 Apr. 13, 2018

Title of Computer Program	Year Program was Completed	Date program "published" or offered to the public	Application ID and Date Filed	Copyright Registration No and Date
STK Components 2017 r3	2017	September 11, 2017	1-6487811573 04/13/2018	TX 8-560-014 Apr. 13, 2018
STK Components 2018 r3	2018	August 14, 2018	1-7567944748 04/03/2019	TX 8-727-986 Apr. 3, 2019
STK Components 2019 r1	2019	Feb. 1, 2019	1-8328065124 12/06/2019	TX 8-823-197 Dec. 6, 2019
STK Components 2019r2	2019	May 2, 2019	1-8328137347 12/06/2019	TX 8-823-202 Dec. 6, 2019
STK Components 2019r3	2019	July 31, 2019	1-8328137700 12/06/2019	TX 8-844-712 Dec. 6, 2019
STK Components 2019 r5	2019	Oct. 31, 2019	1-8328137857 12/06/2019	TX 8-841-605 Dec. 6, 2019
STK Components 2020 r1	2020	Jan. 24, 2020	1-8585249683 02/26/2020	TX 8-866527 Feb. 26, 2020
	2020	April 27, 2020	1-8914267282 June 9, 2020	TX 8-884-203 June 9, 2020
STK Terrain Server				
STK Terrain Server 1.0.0	2014	September 29, 2014	1-6459401916 04/04/2018	TX 8-556-197 Apr. 4, 2018
STK Terrain Server 1.1.0	2014	Nov. 18, 2014	1-6474801917 04/09/2018	TX 8-559-456 Apr. 9, 2018
	2015	March 12, 2015	1-6474845476 4/9/2018	TX 8-559-460 Apr. 9, 2018
STK Terrain Server 1.2.0				
	2016	April 15, 2016	1-6474845879 04/9/2018	TX 8-559-465 Apr. 9, 2018
STK Terrain Server 1.3.0				
	2017	December 8, 2017	1-6477759857 04/10/2018	TX 8-559-468 Apr. 10, 2018
STK Terrain Server 1.4.0				
Geospatial Content Server				
Geospatial Content Server 2.0.0	2018	December 11, 2018	1-7567945132 04/03/2019	TX 8-727-809 Apr. 3, 2019
Geospatial Content Server 2.2.0	2019	August 17, 2019	1-8584889692 02/26/2020	TX 8-866-544 Feb. 26, 2020
Geospatial Content Server 2.3.0	2020	January 15, 2020	1-8584889960 02/26/2020	TX 8-863-231 Feb. 26, 2020
Geospatial Content Server 2.4.0	2020	July 24, 2020	: 1-9067085152 July 27, 2020	
STK T&E Tool Kit				
STK T&E Tool Kit Version 1.0	2017	May 26, 2017	1-6546304352 05/02/2018	TX 8-571-756 May 2, 2018
STK T&E Tool Kit Version 1.1.0	2017	July 11, 2017	1-6546304466 05/02/2018	TX 8-570-051 May 2, 2018
STK T&E Tool Kit Version 1.2.0	2017	December 13, 2017	1-6549818932 05/03/2018	TX 8-570-406 May 3, 2018
STK T&E Tool Kit Version 1.3.0	2018	April 17, 2018	1-7567979026 04/03/2019	TX 8-727-988 Apr. 3, 2019
STK T&E Tool Kit Version 1.4.0	2018	August 15, 2018	1-7568024666 04/03/2019	TX 8-727-808 Apr. 3, 2019
STK T&E Tool Kit Version 1.5	2019	May 15, 2019	1-8328064644 12/06/2019	TX 8-823-191 Dec. 6, 2019
STK T&E Tool Kit Version 1.6	2019	Nov. 15, 2019	1-8328064877 12/06/2019	TX 8-844-726 Dec. 6, 2019
STK T&E Tool Kit Version 1.7	2020	Feb. 18, 2020	1-8585250277 02/26/2020	TX 8-858-787 Feb. 26, 2020
Scalability Extension				
STK Server 1.0.0	2012	November 21, 2012	1-6477851332 04/10/2018	TX 8-559-842 Apr. 10, 2018
STK Server 1.0.2	2013	October 22, 2013	1-6477851755 04/10/2018	TX 8-559-844 Apr. 10, 2018
Scalability Extension 1.1.0	2015	December 1, 2015	1-6477941448 04/10/2018	TX 8-559-846 Apr. 10, 2018
Scalability Extension 1.2.0	2017	April 12, 2017	1-6477941551 04/10/2018	TX 8-559-848 Apr. 10, 2018
Scalability Extension 1.3.0	2017	December 7, 2017	1-6478042562 04/10/2018	TX 8-560-209 Apr. 10, 2018
Scalability Extension 1.4.0	2018	May 7, 2018	1-7568024910 04/03/2019	TX 8-727-805 Apr. 3, 2019
Scalability Extension 1.5.0	2018	November 9, 2018	1-7568025174 April 3, 2019	TX 8-727-807 Apr. 3, 2019
STK Data Federate				
STK Data Federate 2.0.0	2017	July 21, 2017	1-6502929822 04/18/2018	TX 8-560-020 Apr. 18, 2018
STK Data Federate 2.1.0	2018	May 29, 2018	1-8327972722 12/06/2019	TX 8-843-442 Dec. 6, 2019
STK Data Federate 3.1.0	2019	May 30, 2019	1-8585249930 02/26/2020	TX 8-858-731 Feb. 26, 2020
SSA Software Suite (SSS)				

Title of Computer Program	Year Program was Completed	Date program "published" or offered to the public	Application ID and Date Filed	Copyright Registration No and Date
SSS 1.0.0	2013	June 24, 2013	1-6459402190 04/04/2018	TX 8-559-542 Apr. 4, 2018
SSS 1.3.0	2014	April 10, 2014	1-6460256842 04/05/2018	TX 8-559-544 Apr. 5, 2018
SSS 2.0.1	2015	May 12, 2015	1-6460257051 04/05/2018	TX 8-559-548 Apr. 5, 2018
SSS 2.7.0	2016	July 29, 2016	1-6460257154 04/05/2018	TX 8-559-554 Apr. 5, 2018
SSS 2.11.0	2017	July 7, 2017	1-6474512412 04/09/2018	TX 8-559-559 Apr. 9, 2018
SSS 2.13.0	2018	January 22, 2018	1-6474512726 04/09/2018	TX 8-559-497 Apr. 9, 2018
SSS 2.14.0	2018	April 25, 2018	1-7568086658 04/03/2019	TX 8-727-796 Apr. 3, 2019
SSS 2.15.0	2018	October 12, 2018	1-7568087332 04/03/2019	TX 8-727-916 Apr. 3, 2019
SSS 2.16.0	2019	June 24, 2019	1-8358528242 12/16/2019	TX 8-843-909 Dec. 16, 2019
SEG				
Space Event Generator SEG 2.15.0	2018	October 12, 2018	1-7586425997 04/09/2019	TX 8-730-621 April 9, 2019
Space Event Generator 2.16.0	2019	June 24, 2019	1-8359067490 12/16/2019	TX 8-826-846 Dec. 16, 2019
Space Event Generator 2.17.0	2019	Nov. 27, 2019	1-8359067917 12/16/2019	TX 8-826-852 Dec. 16, 2019
Space Event Generator (SEG) 3.0	2020	July 2, 2020	1-9067116530 July 27, 2020	
MPT				
Maneuver Processing Tool MPT 2.15.0	2018	October 12, 2018	1-7586426201 04/09/2019	TX 8-730-645 April 9, 2019
Maneuver Processing Tool MPT 2.16.0	2019	June 24, 2019	1-8359115340 12/16/2019	TX 8-843-904 Dec. 16, 2019
SOTA				
Space Object Threat Assessment (SOTA) 1.0.0	2018	October 15, 2018	1-7586425542 04/09/2019	TX 8-730-653 April 9, 2019
GLADS				
GLADS 1.0.0	2016	November 15, 2016	1-6458190951 04/05/2018	TX 8-556-298 Apr. 4, 2018
GLADS 1.7.0	2017	December 18, 2017	1-6459347951 04/04/2018	TX 8-556-324 Apr. 4, 2018
GLADS 1.9.0	2018	April 6, 2018	1-7571220002 04/04/2019	TX 8-762-043 Apr. 4, 2019
GLADS 1.11.0	2018	September 5, 2018	1-7571220363 04/04/2019	TX 8-728-045 Apr. 4, 2019
GLADS 1.13.0	2018	December 27, 2018	1-7571220457 04/04/2019	TX 8-728-047 Apr. 4, 2019
Enterprise Platform				
Enterprise Platform 1.6.0	2018	October 27, 2018	1-7571432552 04/04/2019	TX 8-740-398
MFT				
MFT user's manual & tutorial : MFT.	1997	December 15, 1997		TX0004845772 Aug. 11, 1998
MFT user's manual & tutorial : version 2.0 for engineering workstations.	1997	December 15, 1997		TX0004845769 Aug. 11, 1998
Navigation Took Kit				
Navigation tool kit : version 1.0.	2004	August 30, 2004		TX0006061747 Oct. 20, 2004
PODS				
PODS user's manual & tutorial : version 2.1 for PCs / author, Sheila R. Marshall.	1997	December 15, 1997		TX0004845767 Aug. 17, 1998
PODS user's manual & tutorial : version 2.1 for engineering workstations.	1997	December 15, 1997		TX0004845766 Aug. 17, 1998
Security Agreements				
Satellite Tool Kit user's manual & 5 other titles.	1998	May 1, 1998		V3418D775 Jul. 6, 1998
Satellite tool kit user's manual: version 2.1 for engineering workstations & 5 other titles.	2005	January 19, 2005		V3519D132 Jan. 24, 2005
Satellite tool kit user's manual: version 2.1 for engineering workstations & 41 other titles.	2005	January 21, 2005		V3521D002 Feb. 16, 2005

Title of Computer Program	Year Program was Completed	Date program "published" or offered to the public	Application ID and Date Filed	Copyright Registration No and Date
Satellite tool kit STK version 8.1.3 & 46 other titles	2011	May 19, 2011		V3604D940 Jun. 24, 2011
Other User Manuals				
Comm user's manual : version 1.1 for engineering workstations : module that allows the user to analyze and visualize communications links among spacecraft, and between spacecraft and earth stations / authors, Sheila R. Marshall, Ralph C. Patrick.	1997	July 15, 1997		TX0004845798 Aug. 28, 1998
Comm user's manual : version 1.1 for Windows 95/NT / authors, Sheila R. Marshall, Ralph C. Patrick.	1997	July 15, 1997		TX0004845768 Aug. 13, 1998
Chains user's manual : version 2.0 for engineering workstations.	1998	February 17, 1998		TX0004845771 Aug. 11, 1998
Chains user's manual : version 2.0 for PCs.	1998	February 17, 1998		TX0004845770 Aug. 28, 1998
Radar user's manual: version 1.0 for Windows 95/NT 4.0 : module that allows the user to analyze and visualize radar system performance for mission planning and system design analysis / author, Ralph C. Patrick.	1998	April 24, 1998		TX0004845797 Aug. 13, 1998
Radar user's manual : version 1.0 for engineering workstations / author, Ralph C. Patrick.	1998	April 24, 1998		TX0004845783 Aug. 11, 1998

EXHIBIT B

Patents

Description

Registration/
Application
Number

Registration/
Application
Date

**AGI Current and Pending Patents
Status Report
As of July 10, 2020**

Subject	Principal Inventor(s)	Awarded Patents
Determining Solar Panel Exposure	J. Tucholski	US Patent: 5,864,489 Issued: 01-26-1999 (Expired)
Determination of Spacecraft Drag	J. Tucholski	US Patent: 6,011,913 Issued: 01-04-2000 (Expired)
Modeling Receiver Bandwidth for Telecommunications Analysis	T. Johnson	US Patent: 6,021,268 Issued: 02-01-2000 (Expired)
Determining Close Approaches for Earth-Fixed Launch Trajectories	J. Woodburn	US Patent: 6,102,334 Issued: 08-15-2000 (Expired)
Calculating Access Between Satellite Constellations and Ground Targets	J. Woodburn	US Patent: 6,144,334 Issued: 11-07-2000 (Expired)
Alerting a User Regarding the Position of a Satellite	P. Graziani	US Patent: 6,160,509 Issued: 12-12-2000 (Expired)
Determining Optimal Paths Among Objects of a Communications Network	D. Holland	US Patent: 6,195,553 Issued: 02-27-2001 (Expired)
Modeling Transmitter Bandwidth for Telecommunications Analysis	T. Johnson	US Patent: 6,473,597 Issued: 10-29-2002 (Expired)
System and Method for Orbit Determination	J. Wright	US Patent: 6,708,116 Issued: 03-16-2004
Determining Obscuration of Sensors that are Mounted on a Spacecraft	D. Ohlarik	US Patent 6,850,875 Issued 02-01-2005 (Expired)

**AGI Current and Pending Patents
Status Report
As of July 10, 2020**

Subject	Principal Inventor(s)	Awarded Patents
Creating Elements and Systems for Description of Position and Motion of Bodies in Three-Dimensional Space to Support Orbital Maneuver Analysis	S. Tanygin	US Patent: 6,859,769 Issued: 02-22-2005 (Expired)
Method and Apparatus for Sequentially Profiling and Solving Problems in Space Mission Analysis	J. Carrico F. Stoner	US Patent: 6,937,968 Issued: 08-30-2005 (Expired)
GPS Carrier Phase Measurement Representation and Method of Use	J. Wright. W. Chuba R. Hujsak	US Patent: 7,050,002 Issued: 05-23-2006
Visualization of Attitude and Attitude/Position Dependent Data	S. Tanygin H. Rashid	US Patent: 7,224,311 Issued: 05-29-2007
Determining Maximum Conjunction Probability of Rectangular Shaped Objects	S. Alfano	US Patent: 7,383,153 Issued: 06-03-2008
Visualizing Data Clouds Using Color & Opacity Blending	P. Graziani E. Mackey D. Massa	US Patent: 7,928,980 Issued: 04-19-2011
Refining State Estimates of a Global Positioning System (GPS) Receiver based upon Sequential GPS Carrier Phase Measurements	J. Wright W. Chuba D. Hujsak	US Patent: 7,423,583 Issued: 09-09-2008
Visualization of Field of View Constraints	S. Tanygin	US Patent: 7,609,907 Issued: 10-27-2009
Addressing Nonlinear Relative Motion for Collision Probability Using Parallelepipeds	S. Alfano	US Patent: 8,041,509 Issued: 10-18-2011
System & Method for Aircraft Mission Modeling	T. Neely	US Patent: 8,221,122 Issued: 07-17-2012
System & Method of Assessing the Risk of Conjunction of a Rocket Body with Orbiting and Non-Orbiting Platforms	S. Alfano	US Patent: 8,275,498 Issued: 09-25-2012

**AGI Current and Pending Patents
Status Report
As of July 10, 2020**

Subject	Principal Inventor(s)	Awarded Patents
Nonlinear Variable Lag Smoother	J. Wright J. Woodburn	US Patent: 8,433,544 Issued: 04-30-2013
System & Method for Detection of Anti-Satellite Vulnerability of an Orbiting Platform	S. Alfano	US Patent: 8,494,688 Issued: 07-23-2013
System & Method for Determining Earth-Fixed Trajectory Launching from Within a Specific Area	S. Tanygin	US Patent: 8,718,920 Issued: 05-06-2014
Maneuver Processing	D. Cather M. Berry	US Patent: 9,540,122 Issued: 01-10-2017
Probability and Frequency of Orbital Encounters	S. Alfano D. Oltrogge	US Patent No.: 10,293,959 B2 Issue Date: 05-21-2019
Formalized Execution of Model Integrated Descriptive Architecture Languages	G. Haun	US Patent No.: 10,540,189 Issued: 01-21-2020
Probability of Collusion Bounding Surfaces	S. Alfano D. Oltrogge	US Patent No.: 10,551,994 Issued: 02-04-2020
Probability of Collusion Topology	S. Alfano D. Oltrogge	US Patent No.: 10,558,320 Issued: 02-11-2020

**AGI Current and Pending Patents
Status Report
As of July 10, 2020**

Subject	Principal Inventor(s)	Awarded Patents
<i>Pending Patent Applications</i>		<i>Pending</i>
<i>Volumetric Assessment of Encounter Probability</i>		<i>Application No.: 62/197,796 Application Date: 07-28-2015 Pending</i>

EXHIBIT C


Trademarks

Description

Registration/
Application
Number


Registration/
Application
Date

TRADEMARK STATUS CHART
 Analytical Graphics, Inc.
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U.S. MARKS				
Mark (M/G File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-072T 3D Tiles Ser. No.: 86/727,023 Reg. No.: 4,985,630 SUPPLEMENTAL REGISTER	Class 42: Platform as a service (PaaS) featuring computer software platforms for streaming massive heterogeneous 3D geospatial datasets	Filing: Aug. 17, 2015 Reg.: Jun. 21, 2016 1st Use: Aug. 9, 2015	Disclaimer: "3D" Registered.	Section 8 Declaration due between Jun. 21, 2021 and Jun. 21, 2022
2493-047T 4D ANALYST Ser. No.: 77/113,588 Reg. No.: 3,413,624 SUPPLEMENTAL REGISTER	Class 9: Computer software for visualization in the nature of graphical representation and analysis of satellites	Filing: Feb. 22, 2007 Reg.: Apr. 15, 2008 1st Use: Oct. 9, 2007	Renewed: Apr. 25, 2018	Combined Sections 8 & 9 Declaration for (20-Year) Renewal due between Apr. 15, 2027 and Apr. 15, 2028
2493-078T  Ser. No.: 88/418,980 Reg. No.: 5,914,324	Class 9: Downloadable computer software for observing, tracking, and orbit determination of satellites and orbiting space objects; Downloadable computer software for space system engineering, satellite system analysis, and analysis of vehicle paths for satellites, aircraft, ships, missiles, and terrestrial objects; Downloadable computer software for space sensor calibration, scheduling and tasking; Downloadable computer software for using sources of ephemeris data to determine conjunctions of objects in space; Downloadable computer software for three-dimensional visualization in aerospace and mapping applications	Filing: May 7, 2019 Reg.: Nov. 19, 2019 1st Use: Jun. 12, 2016 Priority: Nov. 7, 2019	Registered.	Combined Sections 8 & 15 Declaration due between Nov. 19, 2024 and Nov. 19, 2025

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Mark (M/G File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-079T  Ser. No.: 88/418,958 Reg. No.: 5,914,324	Class 9: Downloadable computer software for observing, tracking, and orbit determination of satellites and orbiting space objects; Downloadable computer software for space system engineering; satellite system analysis, and analysis of vehicle paths for satellites, aircraft, ships, missiles, and terrestrial objects; Downloadable computer software for space sensor calibration, scheduling and tasking; Downloadable computer software for using sources of ephemeris data to determine conjunctions of objects in space; Downloadable computer software for three-dimensional visualization in aerospace and mapping applications	Filing: May 7, 2019 Reg.: Nov. 19, 2019 1st Use: Jun. 12, 2016 Priority: Nov. 7, 2019	Registered	Combined Sections 8 & 15 Declaration due between Nov. 19, 2024 and Nov. 19, 2025
2493-002T CAT Ser. No.: 75/325,463 Reg. No.: 2,190,735	Class 9: computer software used for space system engineering; satellite system analysis; and analysis of vehicle paths for satellites, aircraft, ships, missiles and terrestrial objects	Filing: Jul. 16, 1997 Reg.: Sept. 22, 1998 1st Use: Sept. 1, 1996	Incontestability: Dec. 14, 2004 Renewed: Aug. 17, 2018	Combined Sections 8 & 9 Declaration for (20-Year) Renewal due between Sept. 22, 2027 and Sept. 22, 2028
2493-003T CLOSE APPROACH TOOL Ser. No.: 75/325,464 Reg. No.: 2,183,150	Class 9: computer software used for space system engineering; satellite system analysis; and analysis of vehicle paths for satellites, missiles	Filing: Jul. 16, 1997 Reg.: Aug. 18, 1998 1st Use: Sept. 1, 1996	Disclaimer: "Close Approach" Renewed: Aug. 14, 2018	Combined Sections 8 & 9 Declaration for (20-Year) Renewal due between Aug. 18, 2027 and Aug. 18, 2028
SUPPLEMENTAL REGISTER				

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U.S. MARKS				
Mark (MEG File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-070T ComSpOC Ser. No.: 86/663,686 Reg. No.: 4,867,186	Class 42: Software as a service (SaaS) services, namely, hosting software for use by others for use in the observing, tracking, orbit determination, station keeping, conjunction analysis, interference geolocation and visualization of satellites and orbiting space objects	Filing: Jun. 16, 2015 Reg.: Dec. 8, 2015 1st Use: Mar. 11, 2014	Registered.	Combined Sections 8 & 15 Declaration due between Dec. 8, 2020 and Dec. 8, 2021
2493-056T  Ser. No.: 86/749,804 Reg. No.: 4,644,676	Class 42: Software as a service (SaaS) services, namely, hosting software for use by others for use in the observing, tracking, orbit determination, station keeping, conjunction analysis, interference geolocation and visualization of satellites and orbiting space objects	Filing: Apr. 11, 2014 Reg.: Nov. 25, 2014 1st Use: Mar. 11, 2014	Disclaimer: "Commercial Space Operations Center" Registered.	Combined Sections 8 & 15 Declaration due between Nov. 25, 2019 and Nov. 25, 2020
2493-071T  Ser. No.: 86/677,090 Reg. No.: 4,867,209	Class 42: Software as a service (SaaS) services, namely, hosting software for use by others for use in the observing, tracking, orbit determination, station keeping, conjunction analysis, interference geolocation and visualization of satellites and orbiting space objects	Filing: Jun. 29, 2015 Reg.: Dec. 8, 2015 1st Use: Mar. 11, 2014	Disclaimer: "Commercial Space Operations Center" Registered.	Combined Sections 8 & 15 Declaration due between Dec. 8, 2020 and Dec. 8, 2021

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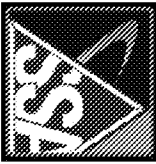
Mark (M/G File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-058T HIDEph Ser. No.: 86/247,151 Reg. No.: 4,718,303	Class 42: Providing scientific information in the field of satellites and orbiting space objects	Filing: Apr. 9, 2014 Reg.: Apr. 7, 2015 1st Use: Dec. 31, 2010	Registered.	Section 8 Declaration of Use due between Apr. 7, 2020 and Apr. 7, 2021
SUPPLEMENTAL REGISTER				
2493-050T Insight3D Ser. No.: 77/757,466 Reg. No.: 3,736,744	Class 9: Computer software for three-dimensional visualization in aerospace and mapping applications	Filing: Jun. 11, 2009 Reg.: Jan. 12, 2010 1st Use: Apr. 28, 2009	Incontestability: Jan. 30, 2016 Renewed: Jun. 22, 2019	Combined Sections 8 & 9 Declaration for (20-Year) Renewal due between Jan. 12, 2029 and Jan. 12, 2030
2493-062T ODTK Ser. No.: 86/413,340 Reg. No.: 4,738,986	Class 9: Computer software for performing satellite orbit determination and simulation	Filing: Oct. 02, 2014 Reg.: May 19, 2015 1st Use: Sept. 30, 2004	Registered.	Combined Sections 8 & 15 Declaration due between May 19, 2020 and May 19, 2021
2493-063T  Ser. No.: 86/430,352 Reg. No.: 4,739,127	Class 9: Computer software for performing satellite orbit determination and simulation	Filing: Oct. 21, 2014 Reg.: May 19, 2015 1st Use: Aug. 31, 2006	Registered.	Combined Sections 8 & 15 Declaration due between May 19, 2020 and May 19, 2021

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U.S. MARKS				
Mark (M/G File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-052T SATELLITE AR Ser. No.: 85/366,749 Reg. No.: 4,144,445	Class 9: Downloadable software for tracking the location of satellites	Filing: Jul. 8, 2011 Reg.: May 15, 2012 1st Use: Nov. 9, 2010	Disclaimer: "Satellite" Renewed: Apr. 20, 2018	Combined Sections 8 & 9 Declaration for (20-Year) Renewal due between May 15, 2021 and May 15, 2022
SUPPLEMENTAL REGISTER				
2493-015T SATELLITE TOOL KIT Ser. No.: 75/485,702 Reg. No.: 2,244,063	Class 9: COMPUTER SOFTWARE USED FOR SPACE SYSTEM ENGINEERING, SATELLITE SYSTEM ANALYSIS, AND ANALYSIS OF VEHICLE PATHS FOR SATELLITES, AIRCRAFT, SHIPS, MISSILES AND TERRESTRIAL OBJECTS	Filing: May 15, 1998 Reg.: May 4, 1999 1st Use: Sept. 29, 1989	Disclaimer: "Tool Kit" Registered.	Per client instructions of Sept. 16, 2015, registration not to be maintained. Section 8 & 9 Declaration of Use not filed. Awaiting cancellation of registration.
SUPPLEMENTAL REGISTER				
2493-057T SPACEBOOK Ser. No.: 86/247,141 Reg. No.: 4,644,533	Class 42: Software as a service (SaaS) services, namely, hosting software for use by others for use in the observing, tracking, orbit determination, station keeping, conjunction analysis, interference geolocation and visualization of satellites and orbiting space objects	Filing: Apr. 9, 2014 Reg.: Nov. 25, 2014 1st Use: Mar. 11, 2014	Registered. Incontestability: Dec. 17, 2019	Combined Sections 8 & 9 Declaration for (10-Year) Renewal due between Nov. 25, 2023 and Nov. 25, 2024

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Mark (M/G File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-0671  Ser. No.: 86/654,671 Reg. No.: 4,898,079	<p>Class 9: Computer software for observing, tracking, and orbit determination of satellites and orbiting space objects; computer software for space sensor calibration, scheduling and tasking; computer software for using sources of ephemeris data to determine conjunctions of objects in space; downloadable computer software allowing for web-based user interactions for all of the foregoing functions; Computer software platforms for observing, tracking, and orbit determination of satellites and orbiting space objects; computer software platforms for space sensor calibration, scheduling and tasking; computer software platforms for using sources of ephemeris data to determine conjunctions of objects in space; downloadable computer software platforms allowing for web-based user interactions for all of the foregoing functions</p>	<p>Filing: Jun. 8, 2015 Reg.: Feb. 9, 2016 1st Use: Nov. 15, 2012</p>	<p>Registered.</p>	<p>Combined Sections 8 & 15 Declaration due between Feb. 9, 2021 and Feb. 9, 2022</p>

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U.S. MARKS				
Mark (M/G File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-068T SSA SOFTWARE SUITE Ser. No.: 86/654,660 Reg. No.: 4,898,078	Class 9: Computer software for observing, tracking, and orbit determination of satellites and orbiting space objects; computer software for space sensor calibration, scheduling and tasking; computer software for using sources of ephemeris data to determine conjunctions of objects in space; downloadable computer software allowing for web-based user interactions for all of the foregoing functions; Computer software platforms for observing, tracking, and orbit determination of satellites and orbiting space objects; computer software platforms for space sensor calibration, scheduling and tasking; computer software platforms for using sources of ephemeris data to determine conjunctions of objects in space; downloadable computer software platforms allowing for web-based user interactions for all of the foregoing functions	Filing: Jun. 8, 2015 Reg.: Feb. 9, 2016 1st Use: Nov. 15, 2012	Disclaimer: "Software Suite" Registered.	Combined Sections 8 & 15 Declaration due between Feb. 9, 2021 and Feb. 9, 2022
2493-016T STK Ser. No.: 75/485,703 Reg. No.: 2,323,113	Class 9: Computer software use for space system engineering, satellite system analysis, and analysis of vehicle paths for satellites, aircraft, ships, missiles and terrestrial objects	Filing: May 14, 1998 Reg.: Feb. 29, 2000 1st Use: Sept. 29, 1989	Incontestability: Jun. 1, 2006 Renewed: Jun. 26, 2009 Filed Renewal 24July2019; accepted 26July2019.	Combined Sections 8 & 9 Declaration for (30-Year) Renewal due between Feb. 28, 2029 and Feb. 29, 2030
2493-028T STK/ASTROGATOR Ser. No.: 75/652,518 Reg. No.: 2,470,247	Class 9: Computer Software used for Space System Engineering, Satellite System Analysis, and Analysis of Vehicle Paths for Satellites	Filing: Mar. 3, 1999 Reg.: Jul. 17, 2001 1st Use: Aug. 1999	Incontestability: Aug. 1, 2007 Renewed: Mar. 2, 2011	Combined Sections 8 & 9 Declaration for (20-Year) Renewal due between Jul. 17, 2020 and Jul. 17, 2021

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U.S. MARKS				
Mark (M.G. File No.)	Goods/Services	Relevant Dates	Status	Next Action/Comments
2493-027T STK SATELLITE TOOL KIT Ser. No.: 74/228,034 Reg. No.: 1,738,121	Class 9: computer software for applications to space system engineering; satellite system analysis; and analysis of vehicle paths for satellites, aircraft, ships, missiles and terrestrial objects	Filing: Dec. 4, 1991 Reg.: Dec. 8, 1992 1st Use: Sept. 29, 1989	Disclaimer: "Satellite Tool Kit" Incontestability: Apr. 27, 1998 Renewed: Jan. 3, 2013	Combined Sections 8 & 9 Declaration for (30-Year) Renewal due between Dec. 8, 2021 and Dec. 8, 2022
2493-054T STK SYSTEMS TOOL KIT Ser. No.: 85/486,899 Reg. No.: 4,270,839	Class 9: Computer software for use in modeling and analysis of the paths of aerospace and terrestrial objects; computer software for predictive modeling of electronic sensor capabilities and radar coverage	Filing: Dec. 5, 2011 Reg.: Jan. 8, 2013 1st Use: Oct. 17, 2011	Disclaimer: "Systems Tool Kit" Incontestability: Dec. 22, 2018 Registered.	Combined Sections 8 & 9 Declaration for Renewal due between Jan. 8, 2022 and Jan. 8, 2023
2493-053T SYSTEMS TOOL KIT Ser. No.: 85/462,741 Reg. No.: 4,228,072	Class 9: Computer software for use in modeling and analysis of the paths of aerospace and terrestrial objects; computer software for predictive modeling of electronic sensor capabilities and radar coverage	Filing: Nov. 02, 2011 Reg.: Oct. 16, 2012 1st Use: Oct. 17, 2011	Registered. Section 8 Declaration accepted Aug. 9, 2018	Combined Sections 8 & 9 Declaration for Renewal due between Oct. 16, 2021 and Oct. 16, 2022
SUPPLEMENTAL REGISTER				

SEE NEXT PAGE FOR INTERNATIONAL MARKS

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INTERNATIONAL – MADRID PROTOCOL			
Mark (M.G. File No.)	Goods/Services	Relevant Dates/ Status	Next Action/Comments
2493-057T-MP SPACEBOOK USPTO Ref. No.: A0046126 IB Reg. No.: 1241525	Class 42: Software as a service (SAAS) services, namely, hosting software for use by others for use in the observing, tracking, orbit determination, station keeping, conjunction analysis, interference geolocation and visualization of satellites and orbiting space objects.	Filing: Nov. 3, 2014 Basis: US Ser. No. 86/247,141 IB Reg.: Nov. 3, 2014 Registered Designated Countries: Australia: Statement of Grant of Protection issued Jul. 24, 2015 (AU Reg. No. 1685153) France: Statement of Grant of Protection issued Sept. 10, 2015 Germany: Statement of Grant of Protection issued Sept. 8, 2015 Italy: Statement of Grant of Protection issued Feb. 11, 2016 Japan: Statement of Grant of Protection issued Sept. 3, 2015. 2 nd part registration fee paid Sept. 10, 2015 Spain: Statement of Grant of Protection issued Jul. 7, 2015 United Kingdom: Statement of Grant of Protection issued Jun. 30, 2015	Renewal of International Registration due Nov. 3, 2024
2493-056T-MP  USPTO Ref. No.: A0046124 IB Reg. No.: 1241112	Class 42: Software as a service (SAAS) services, namely, hosting software for use by others for use in the observing, tracking, orbit determination, station keeping, conjunction analysis, interference geolocation and visualization of satellites and orbiting space objects	Filing: Nov. 3, 2014 Basis: US Ser. No. 86/247,141 IB Reg.: Nov. 3, 2014 Registered Designated Countries: Australia: Statement of Grant of Protection issued Jul. 31, 2015 (AU Reg. No. 1685057) France: Statement of Grant of Protection issued Sept. 10, 2015	Renewal of International Registration due Nov. 3, 2024

TRADEMARK STATUS CHART
Analytical Graphics, Inc.
July 10, 2020

INTERNATIONAL – MADRID PROTOCOL			
Mark (MEG File No.)	Goods/Services	Relevant Dates/ Status	Next Action/Comments
		Germany: Statement of Grant of Protection issued Aug. 24, 2015	
		Italy: Statement of Grant of Protection issued Feb. 11, 2016	
		Japan: Statement of Grant of Protection issued Sept. 3, 2015. 2 nd part registration fee paid Sept. 10, 2015	
		Spain: Statement of Grant of Protection issued Jul. 7, 2015	
		United Kingdom: Statement of Grant of Protection issued Jul. 10, 2015	

INTERNATIONAL – JAPAN (JP)			
Mark (MEG File No.)	Goods/Services	Relevant Dates/ Status	Next Action/Comments
2493-049T-JP	Class 9: Computer software used for space system engineering, satellite system analysis, and analysis of vehicle paths for satellites, aircraft, ships, missiles and terrestrial objects, other computer software, other electronic machines, apparatus, and their parts	Filing: Jun. 2, 2009 JP Reg: Oct. 2, 2009 Renewal filed by Foreign Counsel on May 5, 2019	20-Year Renewal due by Oct. 2, 2029
JP App. No.: 2009-040703 JP Reg. No.: 5270579			

EXHIBIT D

Mask Works

Description

Registration/
Application
Number

Registration/
Application
Date

N/A