

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM611767

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|---|--|-----------------------|-------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
| NATURE OF CONVEYANCE: | RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRA 4610/0889 | | |
| CONVEYING PARTY DATA | | | |
| Name | Formerly | Execution Date | Entity Type |
| SILICON VALLEY BANK | | 12/01/2020 | Corporation: CALIFORNIA |
| RECEIVING PARTY DATA | | | |
| Name: | ANALYTICAL GRAPHICS, INC. | | |
| Street Address: | 220 Valley Creek Boulevard | | |
| City: | Exton | | |
| State/Country: | PENNSYLVANIA | | |
| Postal Code: | 19341 | | |
| Entity Type: | Corporation: PENNSYLVANIA | | |
| PROPERTY NUMBERS Total: 1 | | | |
| Property Type | Number | Word Mark | |
| Registration Number: | 4144445 | SATELLITE AR | |
| CORRESPONDENCE DATA | | | |
| Fax Number: | 6507393900 | | |
| <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: | 6507393939 | | |
| Email: | DebbieWu@JonesDay.com | | |
| Correspondent Name: | JONES DAY | | |
| Address Line 1: | 250 Vesey Street | | |
| Address Line 4: | New York, NEW YORK 10281-1047 | | |
| ATTORNEY DOCKET NUMBER: | 406672-615008 | | |
| NAME OF SUBMITTER: | Debbie Wu | | |
| SIGNATURE: | /Debbie Wu/ | | |
| DATE SIGNED: | 12/01/2020 | | |
| Total Attachments: 20 | | | |
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Termination and Release of Intellectual Property Security Interest

This **Termination and Release of Intellectual Property Security Interest** (the “IP Release”), dated as of December 1, 2020 (the “Effective Date”), is made by and between **ANALYTICAL GRAPHICS, INC.**, a Pennsylvania corporation (the “Grantor”) and **SILICON VALLEY BANK**, a California corporation (the “Grantee”). Grantor and Grantee are sometimes referred herein as each a “Party” and, collectively, the “Parties.”

WHEREAS, pursuant to the terms of (i) that certain Loan and Security Agreement between Grantor and Grantee, dated as of May 19, 2011 (as amended, modified and/or supplemented from time to time, the “Loan Agreement”), (ii) that certain Intellectual Property Security Agreement between Grantor and Grantee, dated as of May 19, 2011 (the “IP Security Agreement”), (iii) that certain Addendum to Intellectual Property Security Agreement between Grantor and Grantee, dated as of August 19, 2011 (the “IP Addendum”), (iv) that certain Supplement to Intellectual Property Security Agreement between Grantor and Grantee, dated as of June 16, 2017 (the “IP Supplement,”) and (v) that certain Amended and Restated Intellectual Property Security Agreement between Grantor and Grantee, dated as of August 14, 2020 (as amended, modified and/or supplemented from time to time, the “Amended IP Security Agreement,” and collectively with the Loan Agreement, IP Addendum, IP Security Agreement, and IP Supplement, the “Loan Documents”), the Grantor has granted to Grantee a security interest in all of Grantor’s right, title and interest, whether presently existing or thereafter acquired, in, to and under all of the Collateral (as defined in the Loan Documents).

WHEREAS, the IP Security Agreement was recorded with the United States Patent and Trademark Office on June 22, 2011 at patent assignment Reel 026477, Frame 0843, on June 22, 2011 at trademark assignment Reel 4567, Frame 0537, and on June 24, 2011 at US Copyright Office Document No. V3604D940.

WHEREAS, the IP Addendum was recorded with the United States Patent and Trademark Office on August 24, 2011 at trademark assignment Reel 4610, Frame 0889.

WHEREAS, the IP Supplement was recorded with the United States Patent and Trademark Office on June 19, 2017 at patent assignment Reel 042886, Frame 0263 and on June 19, 2017 at trademark assignment Reel 6086, Frame 0486.

WHEREAS, the Amended IP Security Agreement was recorded with the United States Patent and Trademark Office on August 17, 2020 at patent assignment Reel 053512, Frame 0267 and on August 17, 2020 at trademark assignment Reel 7024, Frame 0637.

WHEREAS, effective as of the Effective Date, Grantee wishes to fully terminate and release its lien and security interest in the Collateral.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the Parties, Grantee hereby represents, warrants, covenants and agrees, for the benefit of Grantor, as follows:

1. Defined Terms. Unless otherwise defined herein, capitalized terms defined in the Loan Documents and used herein have the meaning given to them in the applicable Loan Document.

2. Release of Security Interest. The Grantee hereby fully terminates, releases, and discharges its lien and security interest in all of the Grantor's right, title and interest in, to and under its Intellectual Property Collateral (as defined in the Loan Documents), including without limitation, the following:

a) Any and all copyright rights, copyright applications, copyright registrations and the like protections in each work or 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 service mark 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.

k) All of the foregoing is collectively referred to herein as the “Released Collateral.”

3. Further Assurances. Grantee hereby authorizes Grantor to (i) record this IP Release with the USPTO, (ii) file UCC financing statement amendments with the applicable filing office in order to memorialize the release of the security interest of the Grantee in the Released Collateral and/or (iii) otherwise record or file this IP Release in any applicable foreign or domestic governmental office or agency. Grantee hereby further agrees to duly execute, acknowledge, procure and deliver any further documents and to do such other acts, in each case at Grantor’s expense, as may be reasonably necessary to effect the release of the security interest in the Released Collateral contemplated hereby.

4. Counterparts. This IP Release may be executed in any number of counterparts and by the different Parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original, and all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart of a signature page to this IP Release electronically or by telecopy shall be as effective as delivery of a manually executed counterpart of this IP Release.

5. Successors and Assigns. This IP Release will be binding on and shall inure to the benefit of the Parties hereto and their respective permitted successors and assigns.

6. Severability. Each provision of this IP Release will be interpreted in such a manner as to be effective and valid under applicable law, but if any term or other provision of this IP Release is held to be invalid, illegal or unenforceable under applicable law, all other provisions of this IP Release shall remain in full force and effect.

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IN WITNESS WHEREOF, the Parties have caused this IP Release to be duly executed by their authorized representatives as of the Effective Date.

GRANTOR:

ANALYTICAL GRAPHICS, INC.

DocuSigned by:
Rick Spinogatti
By: _____
Name: Rick Spinogatti
Title: Vice President – Finance and Administration

GRANTEE:

SILICON VALLEY BANK

DocuSigned by:
Mark Shimrock
By: _____
Name: Mark Shimrock
Title: Vice President

EXHIBIT A**U.S. Copyrights**

| Description | Registration/ Application No. | Registration/ Application Date |
|---|--|---|
| Satellite tool kit STK version 8.1.3. | TX0006976744 | 3/6/08 |
| Satellite tool kit STK version 7.1.1. | TX0006963311 | 7/3/06 |
| Satellite tool kit user's manual: version 2.1 for engineering workstations & 41 other titles. | V3521D002 | 2/16/05 |
| Satellite tool kit user's manual: version 2.1 for engineering workstations & 5 other titles. | V3519D132 | 1/24/05 |
| Orbit determination tool kit: version 3.01. | TX0006063007 | 10/5/04 |
| Satellite tool kit version 6.0. | TX0006026732 | 6/4/04 |
| Navigation tool kit: version 1.0. | TX0006061747 | 8/30/04 |
| STK/OD: version 2.0. | TX0006103065 | 5/18/04 |
| Satellite toolkit: version 4.4. | TX0006033536 | 6/15/03 |
| Satellite toll kit: version 5.0. | TX0006093989 | 5/9/03 |
| STK/OD: a technical summary. | TX0001035371 | 2002 |
| 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. | TX0004845797 | 4/24/98 |
| STK installation instructions: for Windows & engineering workstations. | TX0004845775 | 4/24/98 |
| Radar user's manual: version 1.0 for engineering workstations / author, Ralph C. Patrick. | TX0004845783 | 4/24/98 |
| Satellite tool kit version 4.0.3. | TX0004819011 | 2/17/98 |
| STK/VO user's manual: version 3.0 for Windows 95/NT. | TX0004845765 | 2/17/98 |
| Satellite Tool Kit user's manual & 5 other titles. | V3418D775 | 7/16/1998 |
| Chain user's manual: version 2.0 for PCs. | TX0004845770 | 2/17/98 |
| Chains user's manual: version 2.0 for engineering workstations. | TX0004845771 | 2/17/98 |
| STK/VO user's manual: version 3.0 for engineering workstations. | TX0004845764 | 2/17/98 |

| Description | Registration/ Application No. | Registration/ Application Date |
|--|--|---|
| STK/PL applications 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. | TX0004846313 | 12/15/97 |
| 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. | TX0004845798 | 7/15/97 |
| STK/PL astrodynamics & utilities: version 4.0 for Windows 95/NT 4.0 & engineering workstations: a complete set of astrodynamics, utility, database and graphics functions for extension and development of space-related applications / authors, Ralph C. Patrick. | TX0004846312 | 12/15/97 |
| 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. | TX0004258554 | 12/15/97 |
| Coverage user's manual: version 1.0 for Windows 95/NT/ authors, Sheila R. Marshall, Ralph C. Patrick. | TX0004845777 | 7/15/97 |
| PODS user's manual & tutorial: version 2.1 for engineering workstations. | TX0004845766 | 12/15/97 |
| Comm user's manual; version 1.1 for Windows 95/NT/ authors, Sheila R. Marshall, Ralph C. Patrick. | TX0004845768 | 7/15/97 |
| UNIX user's manual: STK. | TX0004845774 | 7/15/97 |
| STK/GIS user's manual: version 1.0 for engineering workstations. | TX0004845780 | 12/15/97 |
| UNIX tutorial: STK. | TX0004845782 | 7/15/97 |
| PODS user's manual & tutorial: version 2.1 for PCs/ author, Sheila R. Marshall. | TX0004845767 | 12/15/97 |
| MFT user's manual & tutorial: MFT. | TX0004845772 | 12/15/97 |

| Description | Registration/ Application No. | Registration/ Application Date |
|---|--|---|
| Windows 95/NT user's manual: STK. | TX0004845773 | 7/15/97 |
| Coverage user's manual: version 1.0 for engineering workstations/authors, Sheila R. Marshall, Ralph C. Patrick. | TX0004845776 | 7/15/97 |
| Satellite tool kit version 4.0.1. | TX0004819009 | 8/19/97 |
| Satellite tool kit version 4.0 | TX0004819010 | 7/15/97 |
| STK/DIS user's manual: version 1.0 for engineering workstations. | TX0004845778 | 12/15/97 |

| Full Title | Copyright Reg. No. | Publication Date |
|---|---------------------------|-----------------------------|
| STK/DIS user's manual: version 1.0 for PCs. | TX0004845779 | 12/15/97 |
| Windows 95/NT tutorial: STK. | TX0004845781 | 7/15/97 |
| Satellite tool kit: version 4.0.2. | TX0004851553 | 12/15/97 |
| MFT user's manual & tutorial: version 2.0 for engineering workstations. | TX0004845769 | 12/15/97 |
| [Satellite Tool Kit: programmer's library (STK/PL): version 2.1] | TX0004139753 | 4/20/95 |
| Satellite Tool Kit/Programmer's Library (STK/PL): programmer's reference. | TX0004141385 | 9/18/95 |
| Satellite tool kit (STK) tutorial: version 2.1. | TX0004140227 | 4/20/95 |
| [Satellite Tool Kit: version 2.1] | TX0004139752 | 4/20/95 |
| Satellite Tool Kit user's manual: version 2.1 for engineering workstations. | TX0004122250 | 4/20/95 |
| Satellite tool kit/programmer's library (STK/PL) programmer's guide: version 2.1. | TX0004139732 | 4/20/95 |

| Title of Computer Program | Year Programs 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 |

| Title of Computer Program | Year Programs was Completed | Date program "published" or offered to the public | Application ID and Date Filed | Copyright Registration No and Date |
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| 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 |
| Satellite tool kit STK version 9.0 | 2009 | May 5, 2009 | 1-6521285362 04/24/2018 | TX 8-560-063 Apr. 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 |
| Satellite tool kit STK version 9.2 | 2010 | May 13, 2010 | 1-6521390199 04/24/2018 | TX 8-560-068 Apr. 24, 2018 |
| Satellite tool kit STK version 10.0 | 2012 | November 15, 2012 | 1-6521416442 04/24/2018 | TX 8-560-070 Apr. 24, 2018 |
| Satellite tool kit STK version 10.1 | 2014 | February 19, 2014 | 1-6522382962 04/25/2018 | TX 8-560-085 Apr. 25, 2018 |
| Satellite Tool Kit STK version 11.0 | 2015 | December 1, 2015 | 1-6522383116 04/25/2018 | TX 8-560-094 Apr. 25, 2018 |
| Satellite Tool Kit STK version 11.1 | 2016 | June 30, 2016 | 1-6524661262 04/25/2018 | TX 8-560-100 Apr. 25, 2018 |
| Satellite Tool Kit STK version 11.2 | 2017 | April 19, 2017 | 1-6524661846 04/25 2018 | TX 8-560-104 Apr. 25, 2018 |

| Title of Computer Program | Year Programs was Completed | Date program "published" or offered to the public | Application ID and Date Filed | Copyright Registration No and Date |
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| Satellite Tool Kit STK version 11.3 | 2017 | November 10, 2017 | 1-6524661969 04/25/2018 | TX 8-560-107 Apr. 25, 2018 |
| Satellite Tool Kit STK version 11.4 | 2018 | April 23, 2018 | 1-6477754987 04/02/2019 | TX 8-727-917 April 2, 2019 |
| Satellite Tool Kit STK version 11.5 | 2018 | November 6, 2018 | 1-7564953817 04/02/2019 | TX 8-727-453 April 2, 2019 |
| Satellite Tool Kit STK version 11.6 | 2019 | March 29, 2019 | 1-8936180772 06/16/2020 | TX 8-833-677 June 16, 2020 |
| Satellite Tool Kit STK version 11.7 | 2019 | Sept 16, 2019 | 1-8936180960 June 16, 2020 | |
| Satellite 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 Data Recorded | | TX0001035371 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 astrodynamics, 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 | 1-8924296192 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 |

| Title of Computer Program | Year Programs was Completed | Date program "published" or offered to the public | Application ID and Date Filed | Copyright Registration No and Date |
|---|-----------------------------|---|-------------------------------|------------------------------------|
| Orbit Determination Tool Kit (ODTK) | | | | |
| 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 | 1-6502930005 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. 18, 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 8-560-061 Apr. 19, 2018 |
| Orbit Determination Tool Kit version 6.2.0 | 2013 | May 2, 2013 | 1-6506338742 04/19/2018 | TX 8-560-065 Apr. 19, 2018 |
| Orbit Determination Tool Kit version 6.3.0 | 2013 | November 13, 2013 | 1-6506338915 04/19/2018 | TX 8-560-066 Apr. 19, 2018 |
| Orbit Determination Tool Kit version 6.4.0 | 2015 | February 3, 2015 | 1-6518142532 04/23/2018 | TX 8-560-067 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 | 1-6481757542 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 | 1-6431257889 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 | 1-6484645252 04/12/2018 | TX 8-559-910 Apr. 12, 2018 |
| STK Components 2012 r5 | 2012 | May 17, 2012 | 1-6484645416 04/12/2018 | TX 8-559-914 Apr. 12, 2018 |
| STK Components 2013 r4 | 2013 | July 2, 2013 | 1-6487612895 04/13/2018 | TX 8-559-942 Apr. 13, 2018 |

| Title of Computer Program | Year Programs was Completed | Date program "published" or offered to the public | Application ID and Date Filed | Copyright Registration No and Date |
|--|-----------------------------|---|--|------------------------------------|
| STK Components 2014 r2 | 2014 | May 9, 2014 | 1-6487612896 04/13/2018 | TX 8-559-945 Apr. 13, 2018 |
| STK Components 2014 r5 | 2014 | September 20, 2014 | 1-6467611009 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 | 1-6487811306 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 |
| 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 04/13/2018 | 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 2019 r2 | 2019 | May 2, 2019 | 1-8328137347 12/06/2019 | TX 8-823-202 Dec. 6, 2019 |
| STK Components 2019 r3 | 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 |
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| 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 |
| STK Terrain Server 1.2.0 | 2015 | March 12, 2015 | 1-6474845476 4/9/2018 | TX 8-559-460 Apr. 9, 2018 |
| STK Terrain Server 1.3.0 | 2016 | April 15, 2016 | 1-6474845879 4/9/2018 | TX 8-559-465 Apr. 9, 2018 |
| STK Terrain Server 1.4.0 | 2017 | December 8, 2017 | 1-6477759857 04/10/2018 | TX 8-559-468 Apr. 10, 2018 |
| 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 | : 1-00067085152 July 27, 2020 | |
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| STK T&E Tool Kit Version 1.0 | 2017 | May 26, 2017 | 1-6546304352 05/02/2018 | TX 8-571-756 May 2, 2018 |
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| 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 8-727 968 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 | 1-6477851235 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 | 1-8127972722 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) | | | | |
| 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 8-559-564 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 |
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| 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 SEG 2.16.0 | 2019 | June 24, 2019 | 1-8359067490 12/16/2019 | TX 8-826-846 Dec. 16, 2019 |
| Space Event Generator SEG 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 | |
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| 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 |
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| 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 |
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| 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 |
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| Chains user's manual: version 2.0 for PCs | 1998 | February 17, 1998 | | TX0004845770 Aug. 28, 1998 |
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EXHIBIT B**U.S. Patents**

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| 1. | Method and apparatus for determining exposure of spacecraft-mounted solar panels to sun and determination of spacecraft drag | US Patent: 5,864,489 Issued: 01-26-1999 |
| 2. | Method and apparatus for determination of spacecraft drag | US Patent: 6,011,913 Issued: 01-04-2000 |
| 3. | Method and apparatus for modeling receiver bandwidth for telecommunications analysis | US Patent: 6,021,268 Issued: 02-01-2000 |
| 4. | Method and apparatus for determining close approaches for earth-fixed launch trajectories | US Patent: 6,102,334 Issued: 08-15-2000 |
| 5. | Method and apparatus for calculating access between satellite constellations and ground targets | US Patent: 6,144,334 Issued: 11-07-2000 |
| 6. | Method and apparatus for alerting a user regarding the position of a satellite | US Patent: 6,160,509 Issued: 12-12-2000 |
| 7. | Method and apparatus for determining optimal paths among objects of a communications network | US Patent: 6,195,553 Issued: 02-27-2001 |
| 8. | Method and apparatus for modeling transmitter bandwidth for telecommunications analysis | US Patent: 6,473,597 Issued: 10-29-2002 |
| 9. | Method and apparatus for orbit determination | US Patent: 6,708,116 Issued: 03-16-2004 |
| 10. | Method and apparatus for determining obscuration of sensors that are mounted on a spacecraft | US Patent 6,850,875 Issued 02-01-2005 |
| 11. | Method and apparatus for creating elements and systems for description of position and motion of bodies in three-dimensional space to support orbital maneuver analysis | US Patent: 6,859,769 Issued: 02-22-2005 |
| 12. | Method and apparatus for sequentially profiling and solving problems in space mission analysis | US Patent: 6,937,968 Issued: 08-30-2005 |
| 13. | GPS carrier phase measurement representation and method of use | US Patent: 7,050,002 Issued: 05-23-2006 |
| 14. | System and method for visualization of attitude and attitude/position dependent data | US Patent: 7,224,311 Issued: 05-29-2007 |

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| 15. | Method for determining maximum conjunction probability of rectangular-shaped objects | US Patent: 7,383,153 Issued: 06-03-2008 |
| 16. | Method for refining state estimates of a global positioning system (GPS) receiver based upon sequential GPS carrier phase measurements | US Patent: 7,423,583 Issued: 09-09-2008 |
| 17. | Visualization of field of view constraints | US Patent: 7,609,907 Issued: 10-27-2009 |
| 18. | Method for visualizing data clouds using color and opacity blending | US Patent: 7,928,980 Issued: 04-19-2011 |
| 19. | System and method of addressing nonlinear relative motion for collision probability using parallelepipeds | US Patent: 8,041,509 Issued: 10-18-2011 |
| 20. | System and method for aircraft mission modeling | US Patent: 8,221,122 Issued: 07-17-2012 |
| 21. | System and method for assessing the risk of conjunction of a rocket body with orbiting and non-orbiting platforms | US Patent: 8,275,498 Issued: 09-25-2012 |
| 22. | Nonlinear variable lag smoother | US Patent: 8,433,544 Issued: 04-30-2013 |
| 23. | System and method for detection of anti-satellite vulnerability of an orbiting platform | US Patent: 8,494,688 Issued: 07-23-2013 |
| 24. | System and method for determining earth-fixed trajectory launching from within a specified area | US Patent: 8,718,920 Issued: 05-06-2014 |
| 25. | Probability and frequency of orbital encounters | US Patent No.: 10,293,959 Issue Date: 05-21-2019 |
| 26. | Formalized execution of model integrated descriptive architecture languages | US Patent No.: 10,540,189 Issued: 01-21-2020 |

| | Subject | U.S. Patent |
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| 27. | Probability of collision bounding surfaces | US Patent No.: 10,551,994 Issued: 02-04-2020 |
| 28. | Probability of collision topology | US Patent No.: 10,558,320 Issued: 02-11-2020 |
| 29. | Maneuver Processing | US Patent No.: 9,540,122 Issued: 01-10-2017 |
| 30. | System & method for data rendering and transformation in 2- and 3-Dimensional images | US Patent No.: 9,153,063 Issued: 10-06-2015 |
| 31. | Visualization of field of view obstruction by an Ellipsoid | US Patent No.: 9,449,424 Issued: 09-20-2016 |
| 32. | Volumetric assessment of encounter probability | US Application No.: 62/197,796 Filed: 07-28-2015 |
| 33. | Recording and visualizing images using augmented image data | US Application No.: 14/136,357 Filed: 12-20-2013 |

EXHIBIT C**Registered U.S. Trademarks**

| Mark | U.S. Registration Number | Registration Date |
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| 3D TILES | 4985630 | 2016-06-21 |
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| CAT | 2190735 | 1998-09-22 |
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| INSIGHT3D | 3736744 | 2010-01-12 |
| ODTK | 4738986 | 2015-05-19 |
|  | 4739127 | 2015-05-19 |
| SATELLITE AR | 4144445 | 2012-05-15 |
| SATELLITE TOOL KIT | 2244063 | 1999-05-04 |
| STK | 2323113 | 2000-02-29 |
| STK/ASTROGATOR | 2470247 | 2001-07-17 |
| STK SATELITE TOOL KIT | 1738121 | 1992-12-08 |
| STK SYSTEMS TOOL KIT | 4270839 | 2013-01-08 |
| SYSTEMS TOOL KIT | 4228072 | 2012-10-16 |
| ANALTYICAL GRAPHICS & Design | 1753678 | 1993-02-23 |
| NAVTK | 3215805 | 2007-03-06 |
| SATELLITE TOOL KIT | 3685833 | 2009-09-22 |
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| CESIUM PRO & Design | 4873583 | 2015-12-22 |
| CESIUM PRO | 4873584 | 2015-12-22 |
| CESIUM 3D TILES | 5020566 | 2016-08-16 |
| CESIUM 3D TILES & Design | 5020567 | 2016-08-16 |
| COMSPOC | 4867186 | 2015-12-08 |
| COMSPOC COMERCIAL OPERATIONS SPACE CENTER & Design | 4644676 | 2014-11-25 |
| COMSPOC COMERCIAL OPERATIONS SPACE CENTER & Design | 4867209 | 2015-12-08 |
| HIDEPH | 4718303 | 2015-04-07 |
| ODTK | 4738986 | 2015-05-19 |
| ODTK & Design | 4739127 | 2015-09-19 |
| SKYVUE | 87/128379 | n/a |
| SPACEBOOK | 4644533 | 2014-11-25 |
| SSA & Design | 4898079 | 2016-02-09 |
| SSA SOFTWARE SUITE | 4898078 | 2016-02-09 |
| Triangle logo | 4800837 | 2015-08-25 |
| STK SYSTEMS TOOL KIT | 4270839 | 2013-01-08 |
| SYSTEMS TOOL KIT | 4228072 | 2012-10-16 |

Japanese Trademarks

| Mark | Japan Registration Number | Registration Date |
|---------------------|----------------------------------|--------------------------|
| ANALYTICAL GRAPHICS | 5270579 | 2009-10-02 |

International (Madrid Protocol) Trademarks

| Mark | Int'l Registration Number | Registration Date | Designated Countries |
|--|----------------------------------|--------------------------|---|
| SPACEBOOK | 1241525 | 2014-11-03 | Australia, France, Germany, Italy, Japan, Spain, United Kingdom |
| COMSPOC COMERCIAL OPERATIONS SPACE CENTER & Design | 1241112 | 2014-11-03 | Australia, France, Germany, Italy, Japan, Spain, United Kingdom |

EXHIBIT D

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RECORDED: 12/01/2020

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REEL: 007120 FRAME: 0139**