

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7732855

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
CAES COLORADO SPRINGS LLC	01/09/2023
COBHAM ADVANCED ELECTRONIC SOLUTIONS INC.	01/09/2023

**RECEIVING PARTY DATA**

<b>Name:</b>	JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT
<b>Street Address:</b>	10 SOUTH DEARBORN STREET
<b>Internal Address:</b>	FLOOR 12, IL1-1145
<b>City:</b>	CHICAGO
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60603

**PROPERTY NUMBERS Total: 82**

Property Type	Number
Patent Number:	11283431
Patent Number:	8384465
Patent Number:	8405457
Patent Number:	8259020
Patent Number:	8890757
Patent Number:	9812749
Patent Number:	7729430
Patent Number:	9509294
Patent Number:	7592775
Patent Number:	8675328
Patent Number:	9397510
Patent Number:	9958890
Patent Number:	10469062
Patent Number:	7786701
Patent Number:	9362039
Patent Number:	8237488
Patent Number:	8237490
Patent Number:	7544947

PATENT

Property Type	Number
Patent Number:	7583108
Patent Number:	9026692
Patent Number:	11328977
Patent Number:	8203374
Patent Number:	8319541
Patent Number:	7589327
Patent Number:	7071749
Patent Number:	7619459
Patent Number:	9281784
Patent Number:	8928408
Patent Number:	9209138
Patent Number:	9647205
Patent Number:	9646715
Patent Number:	9076554
Patent Number:	8058844
Patent Number:	9519442
Patent Number:	9270284
Patent Number:	9231592
Patent Number:	7129805
Patent Number:	10846451
Patent Number:	10295412
Patent Number:	8860617
Patent Number:	9979067
Patent Number:	10958277
Patent Number:	7423448
Patent Number:	6890832
Patent Number:	9887014
Patent Number:	10074493
Patent Number:	11195674
Patent Number:	6917533
Patent Number:	7733146
Patent Number:	8222916
Patent Number:	8854076
Patent Number:	9595765
Application Number:	17175426
Patent Number:	9711859
Patent Number:	10020585
Patent Number:	10243273

Property Type	Number
Patent Number:	10389032
Patent Number:	10923827
Patent Number:	7800429
Patent Number:	7518218
Patent Number:	7737535
Patent Number:	8237275
Patent Number:	7504637
Patent Number:	9488999
Patent Number:	9799516
Patent Number:	9396947
Patent Number:	9799653
Patent Number:	9378955
Patent Number:	9312133
Patent Number:	9646835
Patent Number:	9378956
Patent Number:	9786608
Application Number:	63285935
Application Number:	17871590
Application Number:	17696804
Application Number:	17886576
Application Number:	17886603
Application Number:	17886593
Application Number:	17646570
Application Number:	17879308
Application Number:	17646537
Application Number:	17824726

**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:** 212.318.6000  
**Email:** JeffreyNegrone@PaulHastings.com  
**Correspondent Name:** JEFFREY NEGRON  
**Address Line 1:** PAUL HASTINGS LLP  
**Address Line 2:** 200 PARK AVENUE  
**Address Line 4:** NEW YORK, NEW YORK 10166

<b>NAME OF SUBMITTER:</b>	JEFFREY M. NEGRON
<b>SIGNATURE:</b>	/s/ Jeffrey M. Negrone

<b>DATE SIGNED:</b>	01/09/2023
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**Total Attachments: 12**  
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## Patent Security Agreement

**Patent Security Agreement**, dated as of January 9, 2023, by CAES Colorado Springs LLC and Cobham Advanced Electronic Solutions Inc. (individually, a “Pledgor”, and, collectively, the “Pledgors”), in favor of JPMorgan Chase Bank, N.A., in its capacity as collateral agent pursuant to the Credit Agreement (in such capacity, the “Collateral Agent”).

### W I T N E S S E T H:

WHEREAS, the Pledgors are party to a Security Agreement of even date herewith (as amended, amended and restated, supplemented or otherwise modified from time to time, the “Security Agreement”) in favor of the Collateral Agent pursuant to which the Pledgors are required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the foregoing premises and other good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, and to induce the Collateral Agent, for the benefit of the Secured Parties, to enter into the Credit Agreement, the Pledgors hereby agree with the Collateral Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. As collateral security for the payment and performance in full of all the Secured Obligations, each Pledgor hereby pledges and grants to the Collateral Agent for the benefit of the Secured Parties a lien on and security interest in all of the right, title and interest of such Pledgor in, to and under the following Pledged Collateral of such Pledgor (collectively, “Patent Collateral”):

- (a) Patents of such Pledgor, including those listed on Schedule I attached hereto; and
- (b) all Proceeds of any and all of the foregoing (other than Excluded Property).

SECTION 3. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Collateral Agent pursuant to the Security Agreement and Pledgors hereby acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

SECTION 4. Termination. Upon the payment in full of the Secured Obligations (other than (i) contingent indemnification obligations for which no claim has been asserted and (ii) Secured Obligations under Hedging Agreements and Treasury Services Agreements) and termination of the Security Agreement, the Collateral Agent shall execute, acknowledge, and deliver to the Pledgors (at the sole expense of the Pledgors) an instrument in writing in recordable form releasing the collateral pledge, grant, assignment, lien and security interest in the Patent Collateral under this Patent Security Agreement.

SECTION 5. Counterparts. This Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts.

SECTION 6. Governing Law. This Patent Security Agreement and the transactions contemplated hereby, and all disputes between the parties under or relating to this Patent Security Agreement or the facts or circumstances leading to its execution, whether in contract, tort or otherwise, shall be construed in accordance with and governed by the laws (including statutes of limitation) of the State of New York, without regard to conflicts of law principles that would require the application of the laws of another jurisdiction.

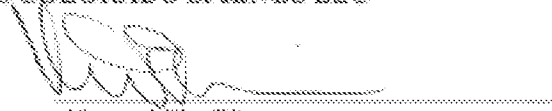
[signature page follows]

IN WITNESS WHEREOF, each Pledgor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

**CAES COLORADO SPRINGS LLC**

By:

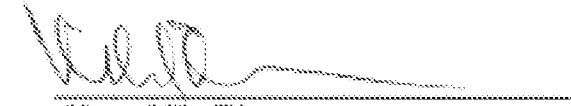


Name: Mike Elias

Title: President and Chief Executive Officer

**COBHAM ADVANCED ELECTRONIC SOLUTIONS INC.**

By:




Name: Mike Elias

Title: President and Chief Executive Officer

*{Signature Page in Patent Security Agreement}*

Agreed to and Accepted:

JPMORGAN CHASE BANK, N.A., as Collateral  
Agent

By:   
Name: Robert P. Kellas  
Title: Executive Director



SCHEDULE I  
to  
PATENT SECURITY AGREEMENT  
PATENT REGISTRATIONS AND PATENT APPLICATIONS

Patent Registrations:

Country	Title	Status	Appl. No.	Filing Date	Patent No.	Grant Date	Owner
US	Detection and Correction of Single Event Upset (SEU) in Integrated Circuit	Issued	16/560893	9/4/2019	11283431	3/22/2022	CAES Colorado Springs LLC
US	AMPLITUDE-STABILIZED EVEN ORDER PRE-DISTORTION CIRCUIT	Issued	12/939834	11/4/2010	8384465	2/26/2013	CAES Colorado Springs LLC
US	Amplitude-stabilized odd order pre-distortion circuit	Issued	12/939818	11/4/2010	8405457	3/26/2013	CAES Colorado Springs LLC
US	Antenna system for satellite communication	Issued	12/533992	7/31/2009	8259020	9/4/2012	Cobham Advanced Electronic Solutions Inc.
US	Antenna system for satellite communication	Issued	13/184298	7/15/2011	8890757	11/18/2014	Cobham Advanced Electronic Solutions Inc.
US	AROUND THE MAST ROTARY COUPLER HAVING STATOR AND ROTOR POWER DIVIDERS/COMBINERS THAT ARE AXIALLY STACKED	Issued	14/833249	8/24/2015	9812749	11/7/2017	Cobham Advanced Electronic Solutions Inc.
US	AUTODETECT FEATURE FOR A SPACEWIRE APPLICATION	Issued	11/456488	7/10/2006	7729430	6/1/2010	CAES Colorado Springs LLC
US	BASELINE RESTORE SAMPLING METHOD	Issued	14/682954	4/9/2015	9509294	11/29/2016	CAES Colorado Springs LLC
US	Battery balancing including resonant frequency compensation	Issued	11/443151	5/31/2006	7592775	9/22/2009	Cobham Advanced Electronic Solutions Inc.
US	Battery charge protection system	Issued	13/366596	2/6/2012	8675328	3/18/2014	Cobham Advanced Electronic Solutions Inc.
US	Battery charge protection system	Issued	14/177386	2/11/2014	9397510	7/19/2016	Cobham Advanced

							Electronic Solutions Inc.
US	Bias-Starving circuit with precision monitoring loop for voltage regulators with enhanced stability	Issued	15/146762	5/4/2016	9958890	5/1/2018	CAES Colorado Springs LLC
US	Circuit and method for reducing the propagation of single event transient effects	Issued	13/099723	5/3/2011	10469062	11/5/2019	CAES Colorado Springs LLC
US	Compensation for parasitic resistance in battery monitoring	Issued	11/773567	7/5/2007	7786701	8/31/2010	Cobham Advanced Electronic Solutions Inc.
US	Composition and method of application to reduce magnetostriction losses in encapsulated microelectronic components	Issued	13/859827	4/10/2013	9362039	6/7/2016	Cobham Advanced Electronic Solutions Inc.
US	CONTINUOUS-TIME CIRCUIT AND METHOD FOR CAPACITANCE EQUALIZATION BASED ON ELECTRICALLY TUNABLE VOLTAGE PRE-DISTORTION OF A C-V CHARACTERISTIC	Issued	12/775381	5/6/2010	8237488	8/7/2012	CAES Colorado Springs LLC
US	CONTINUOUS-TIME CIRCUIT AND METHOD FOR CAPACITANCE EQUALIZATION BASED ON ELECTRICALLY TUNABLE VOLTAGE PRE-DISTORTION OF A C-V CHARACTERISTIC	Issued	13/446860	4/13/2012	8237490	8/7/2012	CAES Colorado Springs LLC
US	CROSS-TALK AND BACK SIDE SHIELDING IN A FRONT SIDE ILLUMINATED PHOTO DETECTOR DIODE ARRAY	Issued	11/681462	3/2/2007	7544947	6/9/2009	CAES Colorado Springs LLC
US	CURRENT COMPARATOR USING WIDE SWING CURRENT MIRRORS	Issued	11/384013	3/17/2006	7583108	9/1/2009	CAES Colorado Springs LLC
US	DATA THROTTLING CIRCUIT AND METHOD FOR A SPACEWIRE APPLICATION	Issued	11/621503	1/9/2007	9026692	5/5/2015	CAES Colorado Springs LLC

US	FLIP CHIP ASSEMBLY	Issued	16/438,343	6/11/2019	11328977	5/10/2022	CAES Colorado Springs LLC
US	Electrically tunable continuous-time circuit and method for compensating a polynomial voltage-dependent characteristic of capacitance	Issued	12/775406	5/6/2010	8203374	6/19/2012	CAES Colorado Springs LLC
US	ELECTRICALLY TUNABLE CONTINUOUS-TIME CIRCUIT AND METHOD FOR COMPENSATING A POLYNOMIAL VOLTAGE-DEPENDENT CHARACTERISTIC OF CAPACITANCE	Issued	13/446895	4/13/2012	8319541	11/27/2012	CAES Colorado Springs
US	ENERGY SENSITIVE DIRECT CONVERSION RADIATION DETECTOR	Issued	12/121480	5/15/2008	7589327	9/15/2009	CAES Colorado Springs LLC
US	Error correcting latch	Issued	10/868706	6/15/2004	7071749	7/4/2006	CAES Colorado Springs LLC
US	HIGH SPEED VOLTAGE TRANSLATOR CIRCUIT	Issued	11/384010	3/17/2006	7619459	11/17/2009	CAES Colorado Springs LLC
US	High-gain low-noise preamplifier and associated amplification and common-mode control method	Issued	14/558525	12/2/2014	9281784	3/8/2016	CAES Colorado Springs LLC
US	HIGH-GAIN LOW-NOISE PREAMPLIFIER AND ASSOCIATED AMPLIFICATION AND COMMON-MODE CONTROL METHOD	Issued	13/749488	1/24/2013	8928408	1/6/2015	CAES Colorado Springs LLC
US	Integrated circuit shielding technique utilizing stacked die technology incorporating top and bottom nickel-iron alloy shields having a low coefficient of thermal expansion	Issued	14/101072	12/9/2013	9209138	12/8/2015	CAES Colorado Springs LLC
US	INTEGRATED CIRCUIT SHIELDING TECHNIQUE UTILIZING STACKED DIE TECHNOLOGY INCORPORATING TOP AND BOTTOM NICKEL-IRON ALLOY SHIELDS	Issued	14/932775	11/4/2015	9647205	5/9/2017	CAES Colorado Springs LLC

	HAVING A LOW COEFFICIENT OF THERMAL EXPANSION						
US	LOW-NOISE LOW-DISTORTION SIGNAL ACQUISITION CIRCUIT AND METHOD WITH REDUCED AREA UTILIZATION	Issued	14/656177	3/12/2015	9646715	5/9/2017	CAES Colorado Springs LLC
US	LOW-NOISE LOW-DISTORTION SIGNAL ACQUISITION CIRCUIT AND METHOD WITH REDUCED AREA UTILIZATION	Issued	14/260885	4/24/2014	9076554	7/7/2015	CAES Colorado Springs LLC
US	Low-power battery system	Issued	12/028600	2/8/2008	8058844	11/15/2011	Cobham Advanced Electronic Solutions Inc.
US	METHOD FOR CONCURRENT SYSTEM MANAGEMENT AND ERROR DETECTION AND CORRECTION REQUESTS IN INTEGRATED CIRCUITS THROUGH LOCATION AWARE AVOIDANCE LOGIC.	Issued	14/524970	10/27/2014	9519442	12/13/2016	CAES Colorado Springs LLC
US	METHOD FOR CREATING A RELIABLE PHASE LOCKED LOOP IN A RUGGEDIZED OR HARSH ENVIRONMENT	Issued	14/524988	10/27/2014	9270284	2/23/2016	CAES Colorado Springs LLC
US	METHOD FOR SYNCHRONIZING A MULTIPLICITY OF CLOCK GENERATING CIRCUITS	Issued	14/469361	8/26/2014	9231592	1/5/2016	CAES Colorado Springs LLC
US	METHOD OF INCREASING THE OPERATING FREQUENCY IN A SERIES-SHUNT CONFIGURED PIN DIODE SWITCH	Issued	11/048423	2/1/2005	7129805	10/31/2006	Cobham Advanced Electronic Solutions Inc.
US	Methods of Modelling Irregular Shaped Transistor Device in Circuit Simulation	Issued	16/509171	7/11/2019	10846451	11/24/2020	CAES Colorado Springs LLC

US	MINIMAL-ENERGY UP/DOWN COUNTING APPARATUS AND METHOD FOR EXTREMELY LOW-POWER APPLICATIONS	Issued	15/298059	10/19/2016	10295412	5/21/2019	CAES Colorado Springs LLC
US	Multiband embedded antenna	Issued	13/179451	7/8/2011	8860617	10/14/2014	Cobham Advanced Electronic Solutions Inc.
US	N-WAY, RIDGED WAVEGUIDE, RADIAL POWER COMBINER/DIVIDER	Issued	15/158241	5/18/2016	9979067	5/22/2018	Cobham Advanced Electronic Solutions Inc.
US	Phase Locked Loop (PLL) with Multiple and Adjustable Phase Outputs	Issued	16/562377	9/5/2019	10958277	3/23/2021	CAES Colorado Springs LLC
US	RADIATION HARDENED LOGIC CIRCUIT	Issued	11/367951	3/3/2006	7423448	9/9/2008	CAES Colorado Springs LLC
US	RADIATION HARDENING METHOD FOR SHALLOW TRENCH ISOLATION IN CMOS	Issued	10/292787	11/12/2002	6890832	5/10/2005	CAES Colorado Springs LLC
US	Radiation tolerant circuit for minimizing the dependence of a precision voltage reference from ground bounce and signal glitch	Issued	12/642177	12/18/2009	9887014	2/6/2018	CAES Colorado Springs LLC
US	RADIATION-HARDENED BREAK BEFORE MAKE CIRCUIT	Issued	15/357434	11/21/2016	10074493	9/11/2018	CAES Colorado Springs LLC
US	RADIATION-HARDENED BREAK BEFORE MAKE CIRCUIT	Issued	16/126773	9/10/2018	11195674	12/7/2021	CAES Colorado Springs LLC
US	RADIATION-HARDENED PROGRAMMABLE DEVICE	Issued	10/045571	10/23/2001	6917533	7/12/2005	CAES Colorado Springs LLC
US	SET AND SEGR RESISTANT DELAY CELL AND DELAY LINE FOR POWER-ON RESET CIRCUIT APPLICATIONS	Issued	11/347903	2/6/2006	7733146	6/8/2010	CAES Colorado Springs LLC
US	SINGLE EVENT TRANSIENT DIRECT MEASUREMENT	Issued	12/948004	11/17/2010	8222916	7/17/2012	CAES Colorado Springs LLC

	METHODOLOGY AND CIRCUIT						
US	Single event transient direct measurement methodology and circuit	Issued	13/549225	7/13/2012	8854076	10/7/2014	CAES Colorado Springs LLC
US	SLOTTED WAVEGUIDE ANTENNA WITH METAMATERIAL STRUCTURES	Issued	14/324172	7/5/2014	9595765	3/14/2017	Cobham Advanced Electronic Solutions Inc.
US	SOLDIER-MOUNTED ANTENNA	Issued	17/175426	2/12/2021			Cobham Advanced Electronic Solutions Inc.
US	Soldier-mounted antenna	Issued	13/762836	2/8/2013	9711859	7/18/2017	Cobham Advanced Electronic Solutions Inc.
US	Soldier-mounted antenna	Issued	15/640219	6/30/2017	10020585	7/10/2018	Cobham Advanced Electronic Solutions Inc.
US	Soldier-mounted antenna	Issued	16/027084	7/3/2018	10243273	3/26/2019	Cobham Advanced Electronic Solutions Inc.
US	Soldier-mounted antenna	Issued	16/151742	10/4/2018	10389032	8/20/2019	Cobham Advanced Electronic Solutions Inc.
US	SOLDIER-MOUNTED ANTENNA	Issued	16/543391	8/16/2019	10923827	2/16/2021	Cobham Advanced Electronic Solutions Inc.
US	TEMPERATURE INSENSITIVE REFERENCE CIRCUIT FOR USE IN A VOLTAGE DETECTION CIRCUIT	Issued	11/336158	1/20/2006	7800429	9/21/2010	CAES Colorado Springs LLC
US	TOTAL IONIZING DOSE SUPPRESSION TRANSISTOR ARCHITECTURE	Issued	11/071730	3/3/2005	7518218	4/14/2009	CAES Colorado Springs LLC
US	TOTAL IONIZING DOSE SUPPRESSION TRANSISTOR ARCHITECTURE	Issued	11/687588	3/16/2007	7737535	6/15/2010	CAES Colorado Springs LLC
US	Tungsten stiffener for flexible substrate assembly	Issued	12/819965	6/21/2010	8237275	8/7/2012	CAES Colorado Springs LLC

US	TWO COMPONENT PHOTODIODE DETECTOR	Issued	11/456662	7/11/2006	7504637	3/17/2009	CAES Colorado Springs LLC
US	VOLTAGE REGULATOR FOR SYSTEMS WITH A HIGH DYNAMIC CURRENT RANGE	Issued	14/341324	7/25/2014	9488999	11/8/2016	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	15/164652	5/25/2016	9799516	10/24/2017	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	13/218308	8/25/2011	9396947	7/19/2016	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	15/181110	6/13/2016	9799653	10/24/2017	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	13/218273	8/25/2011	9378955	6/28/2016	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	13/218335	8/25/2011	9312133	4/12/2016	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	15/060142	3/3/2016	9646835	5/9/2017	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	13/218292	8/25/2011	9378956	6/28/2016	CAES Colorado Springs LLC
US	WAFER STRUCTURE FOR ELECTRONIC INTEGRATED CIRCUIT MANUFACTURING	Issued	15/164680	5/25/2016	9786608	10/10/2017	CAES Colorado Springs LLC

Patent Applications:

Country	Title	Status	Appl. No.	Filing Date	Patent No.	Grant Date	Owner
US	Combined X-Ray with PCD	Pending	63/285935	12/3/2021			CAES Colorado Springs LLC
US	Combined X-Ray with PCD	Pending	17/871590	7/22/2022			Cobham Advanced

							Electronic Solutions Inc.
US	Detection and Correction of Single Event Upset (SEU) in Integrated Circuit	Pending	17/696,804	3/16/2022			CAES Colorado Springs LLC
US	Radial Power Combiner	Pending	17/886576	8/12/2022			Cobham Advanced Electronic Solutions Inc.
US	Radial Power Combiner with Cooling Loop	Pending	17/886603	8/12/2022			Cobham Advanced Electronic Solutions Inc.
US	Radial Power Combiner with Sensor Feedback	Pending	17/886593	8/12/2022			Cobham Advanced Electronic Solutions Inc.
US	Trans-Twist Reflector Antenna	Pending	17/646570	12/30/2021			Cobham Advanced Electronic Solutions Inc.
US	Under Chip Bridge	Pending	17/879308	8/2/2022			CAES Colorado Springs LLC
US	FLAT RATE ANTENNA MANIFOLD	Pending	17/646537	12/30/2021			Cobham Advanced Electronic Solutions Inc.
US	PASTE DIP ASSEMBLY	Pending	17/824726	5/25/2022			Cobham Advanced Electronic Solutions Inc.