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# TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 ETAS ID: TM543755

SU	BMISSION TYPE:	NEW ASSIGNMENT
NA	TURE OF CONVEYANCE:	SECURITY INTEREST

### **CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
1st Detect Corporation		09/30/2019	Corporation: DELAWARE

## **RECEIVING PARTY DATA**

Name:	Thomas B. Pickens III
Street Address:	201 W. 5th Street
Internal Address:	Suite 1275
City:	Austin
State/Country:	TEXAS
Postal Code:	78701
Entity Type:	INDIVIDUAL: UNITED STATES

### **PROPERTY NUMBERS Total: 4**

Property Type	Number	Word Mark
Registration Number:	4538267	MMS-1000
Registration Number:	4211033	1ST DETECT
Registration Number:	4184200	1ST DETECT
Registration Number:	4180600	

### **CORRESPONDENCE DATA**

**Fax Number:** 6508152601

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:** 6508152600

Email: svtmdocketing@sheppardmullin.com
Correspondent Name: Chelseaa Bush c/o Sheppard Mullin et al

Address Line 1: 379 Lytton Avenue

Address Line 4: Palo Alto, CALIFORNIA 94301

ATTORNEY DOCKET NUMBER:	38RP-204791
NAME OF SUBMITTER:	Chelseaa Bush
SIGNATURE:	/ChelseaaBush/
DATE SIGNED:	10/03/2019

**Total Attachments: 12** 

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### INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT (as amended, restated, supplemented or otherwise modified from time to time, the "Agreement") dated as of September 30, 2019 by Astrotech Corporation, a Delaware corporation (the "Company") and  $1^{st}$  Detect Corporation, a Delaware corporation (" $\underline{1}^{\underline{st}}$  Detect", and together with the Company, collectively, the "Grantor"), and Thomas B. Pickens III ("Lender"):

### WITNESSETH

WHEREAS, the Company and Lender are parties to that certain Secured Promissory Note, dated as of September 5, 2019 (as the same may be amended, restated, supplemented or modified from time to time, the "Note") providing for the extensions of credit to be made to Grantor by Lender;

WHEREAS, each Grantor, Astrotech Technologies, Inc., a Delaware corporation and Lender are parties to that certain Security Agreement, dated as of September 5, 2019 (as the same may be amended, restated, supplemented or modified from time to time, the "Security Agreement") in order to induce the Lender to extend credit to the Company; and

WHEREAS, Grantor has granted to Lender a security interest in substantially all of the assets of Grantor including all right, title and interest of Grantor in, to and under all now owned and hereafter acquired trademarks, copyrights, and patents, together with the goodwill of the business symbolized by Grantor's trademarks, patents and copyrights and all products and proceeds thereof, to secure the payment of all amounts owing by Grantor under the Loan Agreement.

NOW, THEREFORE, in consideration of the premises set forth herein and for other good and valuable consideration, receipt and sufficiency of which are hereby acknowledged, Grantor agrees as follows:

- 1. <u>Incorporation Security Agreement</u>. The Security Agreement and the terms and provisions thereof are hereby incorporated in their entirety by this reference. All terms capitalized but not otherwise defined herein shall have the same meanings ascribed to them in the Security Agreement.
- 2. <u>Grant of Security Interests</u>. To secure the payment and performance of the Obligations, Grantor hereby grants to Lender a continuing security interest in Grantor's entire right, title and interest in and to the following whether now owned or existing or hereafter created, acquired or arising:
  - (i) each trademark, patent and copyright listed on <u>Schedule 1</u> annexed hereto, (such trademarks, patents and copyrights, the "<u>Trademarks</u>", "<u>Patents</u>" and "<u>Copyrights</u>") together with any reissues, continuations or extensions thereof, and all of the goodwill of the business connected with the use of, and symbolized by, each Trademark, Patent and Copyright; and
  - (ii) all products and proceeds of the forgoing, including without limitation, any claim by Grantor against third parties for past, present or future (a) infringement or dilution of any trademark or patent, or (b) injury to the goodwill associated with any trademark.
- 3. <u>Representations and Warranties</u>. Grantor hereby represents and warrants that the Trademarks, Patents and Copyrights listed on <u>Schedule I</u> attached hereto constitute all trademarks, patents and copyrights owned or registered to Grantor as of the date hereof.
- 4. Right to Bring Suit. Grantor shall have the right, with the prior written consent of Lender, which consent shall not be unreasonably withheld, conditioned or delayed, to bring suit in its own name to enforce the Trademarks, Patents and Copyrights, in which case Lender may, at Lender's option, be joined as a nominal party to this suit if Lender shall be satisfied that the joinder is necessary and that Lender is not incurring any risk of liability by that joinder. Grantor shall promptly, upon demand, reimburse and indemnify, defend, and hold harmless Lender for all damages, costs and expenses, including reasonable attorneys' fees, incurred by Lender pursuant to this paragraph.

- 5. <u>GOVERNING LAW</u>. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS WITHOUT REFERENCE TO ITS CHOICE OF LAW PRINCIPLES. FURTHER, THE LAW OF THE STATE OF CALIFORNIA SHALL APPLY TO ALL DISPUTES OR CONTROVERSIES ARISING OUT OF OR CONNECTED TO OR WITH THIS AGREEMENT WITHOUT REGARD TO CONFLICT OF LAW PRINCIPLES.
- 6. CONSENT TO JURISDICTION; WAIVER OF JURY TRIAL. ANY LEGAL ACTION, SUIT OR PROCEEDING WITH RESPECT TO THIS AGREEMENT SHALL BE BROUGHT EXCLUSIVELY IN THE STATE AND FEDERAL COURTS OF THE STATE OF TEXAS IN THE COUNTY OF TRAVIS, IN A CITY TO BE DESIGNATED BY LENDER, AND GRANTOR HEREBY ACCEPTS FOR ITSELF AND IN RESPECT OF ITS PROPERTY, GENERALLY AND UNCONDITIONALLY, THE JURISDICTION OF THE AFOREMENTIONED COURTS. GRANTOR HEREBY EXPRESSLY AND IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY OBJECTION, INCLUDING, WITHOUT LIMITATION, ANY OBJECTION TO THE LAYING OF VENUE OR BASED ON THE GROUNDS OF FORUM NON CONVENIENS, OR BASED ON UPON 28 U.S.C. § 1404, WHICH IT MAY NOW OR HEREAFTER HAVE TO THE BRINGING AND ADJUDICATION OF ANY SUCH ACTION, SUIT OR PROCEEDING IN ANY OF THE AFOREMENTIONED COURTS AND AMENDMENTS TO THE GRANTING OF SUCH LEGAL OR EQUITABLE RELIEF AS IS DEEMED APPROPRIATE BY THE COURT. GRANTOR HEREBY WAIVES ANY RIGHT TO A TRIAL BY JURY IN ANY ACTION, PROCEEDING OR COUNTERCLAIM CONCERNING ANY RIGHTS UNDER THIS AGREEMENT, AND AGREES THAT ANY SUCH ACTION, PROCEEDING OR COUNTERCLAIM SHALL BE TRIED BEFORE A COURT AND NOT BEFORE A JURY.
- 7. <u>Notices.</u> Any notice required or permitted to be given under this Security Agreement shall be sent in accordance with Section 16 of the Security Agreement.

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IN WITNESS WHEREOF, Grantor has duly executed this Agreement as of the date first written

above.

ASTROTECH CORPORATION

Name: Eric Stober

Title: CFO

1<sup>ST</sup> DETECT CORPORATION

By: Name: Eric Stober

Title: CFO

[Signature page to Intellectual Property Security Agreement]

Agreed and Accepted as of the date first written above:

Thomas B. Pickens III

Signature: Thomas B. Pickens III

[Signature page to Intellectual Property Security Agreement]

[Schedule 1 to Intellectual Property Security Agreement]

Patent	Country	Status	Registration	Patent	Owner Name
	,		Date	No/Application No.	
Evacuating a Sample Chamber	United States	Granted	12-Apr-16	9,312,112	Astrotech Technologies, Inc.
Evacuating a Sample Chamber	Canada	Granted	4-Jul-17	2,824,525	Astrotech Technologies, Inc.
Evacuating a Sample Chamber	China	Granted	1-Mar-17	ZL 201280012789.1	Astrotech Technologies, Inc.
Evacuating a Sample Chamber	European Community	Granted	81-Inf-8	12703912.1	Astrotech Technologies, Inc.
Evacuating a Sample Chamber	Japan	Granted	11-Nov-16	6039580	
Preconcentrating a Sample in a Preconcentrator Evacuated to Substantially the Same Pressure as an Analytical Device	United States	Granted	20-Sep-16	9,451,364	Astrotech Technologies, Inc.
Pre-concentration system of sample	Japan	Granted	11-Nov-16	JP6039580	Astrotech Technologies, Inc.
Preconcentrating a sample	Russia	Pending		RU2012111667A	1st Detect Corp.
Preconcentrating a sample	Taiwan	Granted	16-Jul-11	TW201124710	Astrotech Technologies, Inc.
Introducing An Analyte Into A Chemical Analyzer	United States	Granted	22-Jul-14	8,784,737	Astrotech Technologies, Inc.
Introducing An Analyte Into A Chemical Analyzer	Canada	Granted	2-Apr-19	2826873	Astrotech Technologies, Inc.
Introducing An Analyte Into A Chemical Analyzer	China	Granted	29-Jun-16	ZL 201280007973.7	1st Detect Corporation
Introducing An Analyte Into A Chemical Analyzer	European Community	Granted	1-Jul-15	EP2673616	Astrotech Technologies, Inc.
Introducing An Analyte Into A Chemical Analyzer	Japan	Granted	26-Aug-16	5991993	Astrotech Technologies, Inc.
Introducing An Analyte Into A Chemical Analyzer	United States	Granted	21-Mar-17	9,599,547	Astrotech Technologies, Inc.
Driving a Mass Spectrometer Ion Trap or Mass Filter	United States	Granted	5-Jul-11	7,973,277	Astrotech Technologies, Inc.
Driving a mass spectrometer ion trap or mass filter	China	Granted	2-Apr-14	102171783	Spacehab, Inc.

[Schedule 1 Intellectual Property Security Agreement]

Driving a Mass Spectrometer Ion Trap or Mass Filter	Japan	Granted	12-Sep-14	5612568	Astrotech Technologies, Inc.
End cap voltage control of ion traps	United States	Granted	18-Dec-12	8,334,506	Astrotech Technologies, Inc.
End cap voltage control of ion traps	Canada	Granted	12-Sep-17	2,708,594	Astrotech Technologies, Inc.
End cap voltage control of ion traps	European Community	Granted	24-Jan-18	EP2232522	Astrotech Corp.
End cap voltage control of ion traps	Japan	Granted	12-Sep-14	5613057	Astrotech Technologies, Inc.
End cap voltage control of ion traps	United States	Granted	22-Apr-14	8,704,168	Astrotech Technologies, Inc.
End cap voltage control of ion traps	Japan	Granted	4-Mar-16	5,895,034	Astrotech Technologies, Inc.
Mass Spectrum Noise Cancellation by Alternating Inverted Synchronous RF	United States	Granted	24-Nov-15	9,196,467	Astrotech Technologies, Inc.
Systems and Methods for Adjusting a Mass Spectrometer Output	United States	Granted	17-Jun-14	8,754,361	Astrotech Technologies, Inc.
Chemical Analysis Instrument with Multi-Purpose Pump	United States	Granted	12-Mar-19	10,229,824	Astrotech Technologies, Inc.
Systems and Methods for Calibrating Mass Spectrometers	United States	Granted	10-Mar-15	8,975,573	Astrotech Technologies, Inc.
Systems and Methods for Calibrating Mass Spectrometers	United States	Granted	29-Mar-16	9,299,545	Astrotech Technologies, Inc.
Mass Spectrometer Ion Trap Having Assymetric End Cap Apertures	United States	Granted	17-Dec-13	8,610,055	Astrotech Technologies, Inc.
Mass Spectrometer Ion Trap Having Assymetric End Cap Apertures	United States	Granted	14-Jul-15	9,082,599	Astrotech Technologies, Inc.
Methods and Systems for Applying End Cap DC Bias in Ion Traps	United States	Granted	15-Dec-15	9,214,321	Astrotech Technologies, Inc.
Method for Detecting Organic and Inorganic Explosives	United States	Granted	31-Oct-17	9,804,141	Astrotech Technologies, Inc.
Adding primary RF to end cap to modify higher order fields	United States	Draft	19-May-15	9,035,244	Astrotech Technologies, Inc

[Schedule 1 Intellectual Property Security Agreement]

Particle Detection System and Swabs with Integral, Machine- Readable Identificaiton Data	Non-torroidal transformer (gapped torroid)	Focused ion inlet with controlled energy	Systems and Methods for Ionizing Poal Poal Poal Poal Poal Poal Poal Poal		Mass Spectrometers Having Real   Car Time Ion Isolation Signal Generators	Mass Spectrometers Having Real   Euro Time Ion Isolation Signal   Comr Generators	Mass Spectrometers Having Real Un Time Ion Isolation Signal Sta Generators	Mass Dependent Automatic Gain Un Control for Mass Spectrometer Sta	Mass Dependent Automatic Gain Un Control for Mass Spectrometer Sta	Ionization Within Ion Trap Using Un Photoionization and Electron State Ionization	Ion Trap with Radial Opening in Un Sta	Mass Spectrometer Having An Un External Detector Sta	Automatic Gain Control with Un Defocusing Lens Sta
			PCT	PCT	Canada	European Community	United States	United States	United States	United States	United States	United States	United States
Pending	Draft	Draft	Pending	Pending	Pending	Pending	Granted	Granted	Granted	Granted	Granted	Granted	Granted
							19-May-15	16-Jan-18	18-Oct-16	3-Mar-15	14-Feb-17	15-Dec-15	3-Feb-15
16277938			PCT/US2018/0257 08	PCT/US2018/016157	2,956,171	15744842.4	9,035,244	9,870,912	9,472,388	8,969,794	9,570,282	9,214,325	8,946,624
Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.	Astrotech Technologies, Inc.

<sup>(</sup>b) Trademarks and Trademark Licenses

Tradamail	2	D	215.5			
THE CONTRACTOR	Country	Smins	Ouse	Date	Date	Control redition
MMS-1000	United States	Registered	9	27-May-2014	4538267	1st Detect Corporation
1ST DETECT	United States	Registered	9	18-Sep-2012	4211033	1st Detect Corporation
1st Detect & design	United States	Registered	9	31-Jul-2012	4184200	1st Detect Corporation
Circle design (color)	United States	Registered	Q	24-Jul-2012	4180600	1st Detect Corporation
1ST DETECT	Canada	Registered	9	12-Mar-2015	TMA898548	1st Detect Corporation
MMS-1000	Canada	Registered	6	26-Mar-2015	TMA899653	1st Detect Corporation
1st Detect & design	Canada	Registered	9	04-May-2016	TMA936781	1st Detect Corporation
Circle Design (black & white)	Canada	Registered	9	03-Apr-2014	TMA875020	1st Detect Corporation
1ST DETECT	Mexico	REGISTERED	9	14-Oct-2013	1403394	1st Detect Corporation
1st Detect & design	Norway	REGISTERED	9 10 41	31-Oct-2013	272897	1st Detect Corporation
1st Detect & design	Switzerland	REGISTERED 9 10 41	9 10 41	22-Oct-2013	650097	1st Detect Corporation

Trademark	Country	Status	Class	Registration	Registration Registration No.	Owner Name
1ST DETECT	European Union	REGISTERED	9 10 41	15-Oct-2013	11869393	1st Detect Corporation
MMS-1000	European Union	REGISTERED	9 10 41	28-Jan-2013	10663367	1st Detect Corporation
Circle design (color)	European Union	REGISTERED	9 10 41	29-Mar-2012	10375764	1st Detect Corporation
1st Detect & design	European Union	REGISTERED	9 10 41	29-Mar-2012	10375749	1st Detect Corporation
MINIATURE CHEMICAL DETECTOR & design	European Union	REGISTERED	9 10 41	29-Mar-2012	10375772	1st Detect Corporation
1st Detect & design	Israel	REGISTERED	9	23-Jan-2015	271704	1st Detect Corporation
1ST DETECT	Israel	PENDING	9			1st Detect Corporation
1st Detect & design	Japan	REGISTERED	9	16-Mar-2012	5479707	First Detect Corporation
1ST DETECT	Japan	REGISTERED	9	27-Sep-2013	5618975	First Detect Corporation
Circle design (color)	Japan	REGISTERED	9	16-Mar-2012	5479708	First Detect Corporation

	)	5				
Hadeillain	County	Otatos	Class	Date	Date	Owlie! Ivallie
MINIATURE CHEMICAL DETECTOR Japan & design	Japan	REGISTERED 9		16-Mar-2012	5479709	First Detect Corporation
MMS-1000	Japan	REGISTERED 9		13-Dec-2013	5636674	First Detect Corporation
1ST DETECT	United Arab Emirates	REGISTERED 9		15-Dec-2014	192708	1st Detect Corporation
MINIATURE CHEMICAL DETECTOR & design	China	REGISTERED 9		07-Mar-2013	10221547	1st Detect Corporation
MINIATURE EMENICAL DETECTOR						
1st Detect	Hong Kong	REGISTERED 9		08-Nov-2011	302078334	1st Detect Corporation
1st Detect & design	Hong Kong	REGISTERED 9		08-Nov-2011	302078352	1st Detect Corporation
MINIATURE CHEMICAL DETECTOR & design	Hong Kong	REGISTERED 9		08-Nov-2011	302078361	1st Detect Corporation
Circle design (color)	Hong Kong	REGISTERED 9		08-Nov-2011	302078343	1st Detect Corporation

**RECORDED: 10/03/2019** 

& design Circle Design (black & white) MINIATURE CHEMICAL DETECTOR Australia MMS-1000 1st Detect & design 1ST DETECT MINIATURE CHENICAL DETECTOR Trademark Australia Australia Australia Australia Country |REGISTERED|9 |REGISTERED|9 REGISTERED 9 |REGISTERED|9 |REGISTERED|9 Status Class Registration Registration No. 18-Oct-2011 18-Oct-2011 20-May-2013 18-Oct-2011 17-Feb-2012 Date 1475267 1557938 1454340 1454339 1454338 1st Detect Corporation **Owner Name** 

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None.