

TRADEMARK ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Nuventix, Inc.	FORMERLY INNOVATIVE FLUIDICS, INC.	10/02/2013	CORPORATION: DELAWARE
RECEIVING PARTY DATA			
Name:	CenterPoint Venture Fund III (Q), L.P.		
Street Address:	PO Box 702109		
City:	Dallas		
State/Country:	TEXAS		
Postal Code:	75370-2109		
Entity Type:	LIMITED PARTNERSHIP: DELAWARE		
PROPERTY NUMBERS Total: 2			
Property Type	Number	Word Mark	
Registration Number:	3428167	SYNJET	
Registration Number:	3427629	NUVENTIX	
CORRESPONDENCE DATA			
Fax Number:	5124814913		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>			
Phone:	512-320-9313		
Email:	ccuellar@akllp.com		
Correspondent Name:	Cassandra Cuellar, Andrews Kurth LLP		
Address Line 1:	111 Congress Avenue		
Address Line 2:	Suite 1700		
Address Line 4:	Austin, TEXAS 78701		
ATTORNEY DOCKET NUMBER:	211264		
NAME OF SUBMITTER:	Cassandra Cuellar		

Signature:	/Cuellar-AT/
Date:	10/04/2013

Total Attachments: 47

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THE INDEBTEDNESS SECURED BY THIS INSTRUMENT IS SUBORDINATED TO THE PRIOR PAYMENT OF THE SENIOR DEBT (AS DEFINED IN THE SUBORDINATION AGREEMENT HEREINAFTER REFERRED TO) PURSUANT TO, AND TO THE EXTENT PROVIDED IN THE SUBORDINATION AGREEMENT DATED ON OR ABOUT THE DATE HEREOF, IN FAVOR OF SILICON VALLEY BANK.

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (“*Agreement*”) dated October 2, 2013 is between Nuventix, Inc. (“*Debtor*”) and CenterPoint Venture Fund III (Q), L.P. (“*Collateral Agent*”), on behalf of the holders of the Notes issued pursuant to the Purchase Agreement referenced below (collectively, the “*Secured Parties*”).

RECITALS:

A. Collateral Agent and other Secured Parties will make advances to Debtor as described in the Note Purchase Agreement dated of even date herewith between Debtor, Collateral Agent, and the other Purchasers named therein, (the “*Purchase Agreement*”), but only if Debtor grants Collateral Agent, on behalf of the Secured Parties and in accordance with the terms of the Purchase Agreement, a security interest in its intellectual property, including patents and trademarks.

B. Debtor has granted Collateral Agent, for the benefit of the Secured Parties, a security interest in all of its right, title and interest, presently existing or later acquired, in and to all the Collateral described in the Security Agreement dated of even date herewith (the “*Security Agreement*”) executed by Debtor and Collateral Agent contemporaneously with the Purchase Agreement.

AGREEMENT:

NOW THEREFORE, in consideration of the mutual promises, covenants, conditions, representations, and warranties hereinafter set forth and for other good and valuable consideration, and intending to be legally bound, the parties hereto mutually agree as follows:

1. Definitions. Capitalized terms used but not defined herein shall have the meanings given to them in the Purchase Agreement and the Security Agreement. In addition, the following terms, as used in this Agreement, have the following meanings:

“*Event of Default*” shall have the meaning given to it in the Notes.

“*Intellectual Property Collateral*” means:

(i) Each of the patents and patent applications which are presently owned by Debtor (including all of Debtor’s right, title, and interest, in and to the patents and patent applications listed on Exhibit A, attached hereto, as the same may be updated hereafter from time to time), in whole or in part, and all patent rights with respect thereto throughout the

world, including all proceeds thereof (including license royalties and proceeds of infringement suits), foreign filing rights, and rights to extend such patents and patent rights;

(ii) All of Debtor's right, title, and interest in all patentable inventions, and to file applications for patent under federal patent law or regulation of any foreign country, and to request reexamination and/or reissue of the patents, the right (without obligation) to sue or bring interference proceedings in the name of Debtor for past, present, and future infringements of the patents, and all rights (but not obligations) corresponding thereto in the United States and any foreign country;

(iii) Each of the trademarks and rights and interest which are capable of being protected as trademarks (including all of Debtor's right to the trademark registrations listed on Exhibit B, attached hereto, as the same may be updated hereafter from time to time and all other trademarks, service marks, designs, logos, indicia, tradenames, corporate names, company names, business names, fictitious business names, trade styles, and other source or business identifiers, and applications pertaining thereto), which are presently owned by Debtor, in whole or in part, and all trademark rights with respect thereto throughout the world, including all goodwill associated therewith and all proceeds thereof (including license royalties and proceeds of infringement suits), and rights to renew and extend such trademarks and trademark rights;

(iv) All of Debtor's right, title and interest to register trademark claims under any state or federal trademark law or regulation of any foreign country and to apply for, renew, and extend the trademark registrations and trademark rights, the right (without obligation) to sue or bring opposition or cancellation proceedings in the name of Debtor for past, present, and future infringements of the trademarks, registrations, or trademark rights and all rights (but not obligations) corresponding thereto in the United States and any foreign country;

(v) All copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof and rights and interest which are capable of being protected as copyrights (including all of Debtor's right to the copyright registrations listed on Exhibit C, attached hereto, as the same may be updated hereafter from time to time), which are presently owned by Debtor, in whole or in part, including all proceeds thereof (including license royalties and proceeds of infringement suits);

(vi) All of Debtor's right, title and interest to register copyrights under any state or federal copyright law or regulation of any foreign country and to apply for copyright registrations, the right (without obligation) to sue in the name of Debtor for past, present, and future infringements of the copyrights and all rights (but not obligations) corresponding thereto in the United States and any foreign country;

(vii) All general intangibles relating to the foregoing, including, without limitation, goodwill, license agreements, purchase orders, computer programs, computer discs, computer tapes, literature, reports, catalogs, design rights and rights to payment of any kind all claims for damages by way of any past, present and future infringement with respect to any of the items sent forth in paragraphs (i), (ii), (iii), (iv), (v), and (vi);

(viii) All books and records related to any of the foregoing; and

(ix) All proceeds of any and all of the foregoing (including, without limitations, license royalties and proceeds of infringement suits) and, to the extent not otherwise included, all payments under insurance, or any indemnity, warranty, or guaranty payable by reason of loss or damage to or otherwise with respect to the Collateral.

Notwithstanding the foregoing, “Intellectual Property Collateral” shall not include any license, property or contract right the granting of a security interest in which would be prohibited by law or contract. Furthermore, notwithstanding the foregoing, the security interest granted herein does not extend to and the term “Intellectual Property Collateral” does not include any license or contract rights to the extent that such rights are nonassignable by their terms (but only to the extent such prohibition is enforceable under applicable law, including, without limitation, Section 9.318(d) of the Code (as defined in the Security Agreement)) without the consent of the licensor or other party (but only to the extent such consent has not been obtained).

“Notes” shall mean the Subordinated Secured Promissory Notes issued in connection with the Purchase Agreement.

“Obligations” has the meaning set forth in the Security Agreement.

2. Grant of Security Interest. Debtor hereby grants Collateral Agent, for the benefit of the Secured Parties, a security interest in all of Debtor’s right, title, and interest in and to the Intellectual Property Collateral to secure the performance and payment in full in cash of the Obligations. Notwithstanding the foregoing, all of the rights and remedies of the Secured Parties hereunder are expressly subordinate to the Permitted Liens as set forth in the Security Agreement.

This security interest is granted in conjunction with the security interest granted under the Security Agreement dated of even date herewith. Collateral Agent’s rights and remedies in the security interest are in addition to those in the Purchase Agreement, the Security Agreement and those available in law or equity. Collateral Agent’s rights, powers and interests are cumulative with every right, power or remedy provided hereunder. Collateral Agent’s exercise of its rights, powers or remedies in this Agreement, the Purchase Agreement or any other Transaction Document (as defined in the Purchase Agreement), and does not preclude the simultaneous or later exercise of any or all other rights, powers or remedies.

3. Subordination. As long as the Senior Indebtedness (as defined in Section 5 of the Note) is outstanding, the security interest granted hereunder and payment of all sums now or hereafter under the Notes is junior and subordinated to the Senior Indebtedness, but otherwise is prior and superior to the rights of all third parties in the Collateral arising from and after the date of this Agreement. To the extent there is any conflict between the provisions of this Section 3 and the other provisions of this Agreement or the Loan Documents, the provisions of this Section 3 shall control.

4. Patents; Trademarks; Service Marks. Debtor hereby represents, warrants, and covenants that:

(a) A true and complete schedule setting forth all patent and patent applications owned or controlled by Debtor, together with a summary description in respect of the filing or issuance thereof and expiration dates is set forth on Exhibit A.

(b) A true and complete schedule setting forth all federal and state trademark and service mark registrations owned or controlled by Debtor, together with a summary description in respect of the filing or issuance thereof and expiration dates is set forth on Exhibit B.

(c) A true and complete schedule setting forth all copyright applications or registrations owned or controlled by Debtor, together with a summary description in respect of the filing or issuance thereof and expiration dates is set forth on Exhibit C.

(d) Except for the filing of a financing statement with the Secretary of State of Delaware and filings with the United States Patent and Trademark Office and the United States Copyright Office necessary to perfect the security interests created hereunder, to the Debtor's knowledge and belief no authorization, approval, or other action by, and no notice to or filing with, any governmental authority or regulatory body in the United States is required either for the grant by Debtor of the security interest hereunder or for the execution, delivery, or performance of this Agreement by Debtor or for the perfection of or the exercise by Collateral Agent of its rights hereunder with respect to the Intellectual Property Collateral. Debtor shall notify Collateral Agent in advance of application for and within fifteen (15) days of receipt of notice of registration in connection of any future registrations related to any of the Intellectual Property Collateral.

5. After-Acquired Patent, Service Mark, Trademark, and Copyright Rights. If Debtor shall obtain ownership rights to any new service marks, trademarks, copyrights, any new patentable inventions or become entitled to the benefit of any patent application or patent for any reissue, division, or continuation, of any patent, the provisions of this Agreement shall automatically apply thereto. Debtor shall, upon reasonable request by Collateral Agent, provide a report from time to time, but not more frequently than once per calendar year unless an Event of Default has occurred and is continuing, in writing to Collateral Agent with respect to any such new service marks, trademarks, or patents, or renewal or extension of any service mark or trademark registration. Debtor shall bear any expenses incurred in connection with future patent applications, future service mark or trademark registrations, and future copyright applications.

6. Litigation and Proceedings. Debtor shall commence and diligently prosecute in its own name, as the real party in interest, for its own benefit, and at its own expense, such suits, administrative proceedings, or other actions for infringement or other damages as are in its reasonable business judgment necessary and appropriate to protect the Intellectual Property Collateral. Debtor shall provide to Collateral Agent any non-privileged information with respect thereto reasonably requested by Collateral Agent. Collateral Agent shall provide at Debtor's expense all necessary cooperation in connection with any such suits, proceedings, or action, including, without limitation, joining as a necessary party. Following Debtor's becoming aware thereof, Debtor shall notify Collateral Agent of the institution of, or any adverse determination in, any proceeding in the United States Patent and Trademark Office, or any United States, state, or foreign court regarding Debtor's claim of ownership in any of the patents, service marks, or

trademarks, its right to apply for the same, or its right to keep and maintain such patent, service mark, or trademark right.

7. Power of Attorney. To the extent it does not adversely affect the validity of the Intellectual Property Collateral, Debtor grants Collateral Agent power of attorney, coupled with an interest, having the full authority, and in the place of Debtor and in the name of Debtor, from time to time during the occurrence and continuance of an Event of Default in Collateral Agent's discretion, to take any action and to execute any instrument which Collateral Agent may deem necessary or advisable to accomplish the purposes of this Agreement, including, without limitation, as may be subject to the provisions of this Agreement: to endorse Debtor's name on all applications, documents, papers, and instruments necessary for Collateral Agent to use or maintain the Intellectual Property Collateral; to ask, demand, collect, sue for, recover, impound, receive, and give acquittance and receipts for money due or to become due under or in respect of any of the Intellectual Property Collateral; to file any claims or take any action or institute any proceedings that Collateral Agent may deem necessary for the collection of any of the Intellectual Property Collateral or otherwise to enforce Debtor's or the Secured Parties' rights with respect to any of the Intellectual Property Collateral and to assign, pledge, convey, or otherwise transfer title in or dispose of the Intellectual Property Collateral to any person.

8. Events of Default. An Event of Default shall be an Event of Default under this Agreement.

9. Specific Remedies. Upon the occurrence and continuation of any Event of Default, Collateral Agent shall have, in addition to, other rights given by law or in this Agreement, the Purchase Agreement, the Security Agreement, or in the Notes, all of the rights and remedies with respect to the Intellectual Property Collateral of a secured party under the Code, including the following:

(a) Notification. Collateral Agent may notify licensees to make royalty payments on license agreements directly to Collateral Agent for the benefit of the Secured Parties.

(b) Sale. Collateral Agent may sell or assign the Intellectual Property Collateral and associated goodwill at public or private sale for such amounts, and at such time or times as Collateral Agent deems advisable. Any requirement of reasonable notice of any disposition of the Intellectual Property Collateral shall be satisfied if such notice is sent to Debtor thirty days prior to such disposition. Debtor shall be credited with the net proceeds of such sale only when they are actually received by Collateral Agent, and Debtor shall continue to be liable for any deficiency remaining after the Intellectual Property Collateral is sold or collected. If the sale is to be a public sale, Collateral Agent shall also give notice of the time and place by publishing a notice one time at least ten days before the date of the sale in a newspaper of general circulation in the county in which the sale is to be held. To the maximum extent permitted by applicable law, Collateral Agent may be the purchaser of any or all of the Intellectual Property Collateral and associated goodwill at any public sale and shall be entitled, for the purpose of bidding and making settlement or payment of the purchase price for all or any portion of the Intellectual Property Collateral sold at any public sale, to use and apply all or any

part of the Obligations as a credit on account of the purchase price of any collateral payable by Collateral Agent at such sale.

(c) For the purpose of enabling Secured Parties to exercise the rights and remedies in the case of an Event of Default and for no other purpose, Debtor hereby grants to Collateral Agent for the benefit of Secured Parties, to the extent assignable, an irrevocable (except as hereinafter set forth), non-exclusive license (exercisable without payment of royalty or other compensation to Debtor other than a credit against the Obligations of Debtor in an amount not less than the net amount received with respect to the Intellectual Property Collateral so used, assigned, licensed or sublicensed) to use, assign, license or sublicense any of the Intellectual Property Collateral now owned or hereafter acquired by Debtor, wherever the same may be located, including in such license reasonable access to all media in which any of the licensed items may be recorded or stored and to all computer programs used for the compilation or printout thereof. Notwithstanding anything herein to the contrary, such license shall not be effective unless and until an Event of Default shall have occurred and be continuing beyond the expiration of any applicable grace periods.

(d) Notwithstanding anything contained herein to the contrary, so long as no Event of Default shall have occurred and be continuing beyond any grace period, Debtor will be permitted exclusively to exploit, use, enjoy, protect, license, sublicense, assign, sell, dispose of or take other actions with respect to the Intellectual Property Collateral in the ordinary course of the business of Debtor. In furtherance of the foregoing, unless an Event of Default shall have occurred and be continuing, Collateral Agent shall from time to time, upon the request of Debtor, execute and deliver any instruments, certificates or other documents, in the form so requested, that Debtor shall have certified are appropriate to allow it to take any action permitted above. Further, upon the payment in full of all of the Obligations, earlier expiration of this Agreement or release of the Intellectual Property Collateral, the license granted pursuant to clause (c) above shall terminate. The exercise of rights and remedies upon an Event of Default by Secured Parties shall not terminate the rights of the holders of any license or, sublicense or other interest theretofore granted by Debtor in accordance with the first sentence of this clause (d).

(e) Secured Party, without liability to Debtor may, upon the occurrence and during the continuance of an Event of Default, (A) take control of funds generated by the Intellectual Property Collateral, such as license and maintenance and support fees or royalty payments and use same to reduce any part of the Obligations and exercise any other rights which an owner of such Collateral may exercise; and (B) demand, collect, convert, redeem, receipt for, settle, compromise, adjust, sue for, foreclose or realize upon the Intellectual Property Collateral, in its own name or in the name of Debtor, as the Secured Parties may determine. The Secured Parties shall not be liable for failure to collect any account or fees, or for any act or omission on the part of the Secured Parties, or their respective officers, agents or employees, except willful misconduct and gross negligence.

10. Choice of Law. The Code shall govern the perfection and the effect of attachment and perfection of the Collateral Agent's security interest in the Collateral, and the rights, duties and obligations of the Secured Parties, the Collateral Agent and Debtor with respect to the Intellectual Property Collateral. This Agreement shall be deemed to be a contract under the laws of the State of Delaware and, to the extent not inconsistent with the preceding sentence,

the terms and provisions of this Agreement shall be governed by and construed in accordance with the laws of that State.

11. General Provisions.

(a) Effectiveness. This Agreement shall be binding and deemed effective when executed by Debtor and Collateral Agent.

(b) Successors and Assigns. This Agreement shall bind and inure to the benefit of the respective successors and assigns of each of the parties; *provided, however*, that Debtor may not assign the Agreement or any rights or duties hereunder without Collateral Agent's prior written consent and any prohibited assignment shall be absolutely void. Collateral Agent may assign this Agreement and its rights and duties hereunder, subject only to Section 7.2 of the Purchase Agreement, and no consent or approval by Debtor is required in connection with any such assignment.

(c) Section Headings. The section headings contained in this Agreement are for reference purposes only and shall not control or affect its construction or interpretation in any respect.

(d) Interpretation. Neither this Agreement nor any uncertainty or ambiguity herein shall be construed or resolved against Collateral Agent or Debtor, whether under any rule of construction or otherwise. On the contrary, this Agreement has been reviewed by all parties and shall be construed and interpreted according to the ordinary meaning of the words used so as to fairly accomplish the purposes and intentions of all parties hereto.

(e) Severability of Provisions. The provisions of this Agreement are intended to be severable. If any provision of this Agreement shall for any reason be held invalid or unenforceable in whole or in part in any jurisdiction, such provision shall, as to such jurisdiction, be ineffective to the extent of such invalidity or unenforceability without in any manner affecting the validity or enforceability of such provision in any other jurisdiction or any other provision of this Agreement in any jurisdiction.

(f) Amendments in Writing. This Agreement can only be amended by a writing signed by both Collateral Agent and Debtor.

(g) Counterparts; Telefacsimile Execution. This Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same Agreement. Delivery of an executed counterpart of this Agreement by telefacsimile shall be equally as effective as delivery of a manually executed counterpart of this Agreement. Any party delivering an executed counterpart of this Agreement by telefacsimile also shall deliver a manually executed counterpart of this Agreement but the failure to deliver a manually executed counterpart shall not affect the validity, enforceability, and binding effect of this Agreement.

(h) Fees and Expenses. Debtor shall pay to Collateral Agent on demand all costs and expenses that Collateral Agent pay or incur in connection with the administration,

enforcement, and termination of this Agreement, including: (a) reasonable attorneys' and paralegals' fees and disbursements of counsel to Collateral Agent; (b) reasonable costs and expenses (including reasonable attorneys' and paralegals' fees and disbursements) for any amendment, supplement, waiver, consent, or subsequent closing in connection with this Agreement and the transactions contemplated hereby; (c) costs and expenses of lien and title searches; (d) taxes, fees, and other charges for filing this Agreement at the United States Patent and Trademark Office and United States Copyright Office, or for filing financing statements, and continuations, and other actions to perfect, protect, and continue the security interest created hereunder; (e) sums paid or incurred to pay any amount or take any action required of Debtor under this Agreement that Debtor fails to pay or take; (f) costs and expenses of preserving and protecting the Intellectual Property Collateral; and (g) actual and reasonable out-of-pocket expenses (including actual and reasonable attorneys' and paralegals' fees and disbursements) paid or incurred to enforce the security interest created hereunder, sell or otherwise realize upon the Intellectual Property Collateral, and otherwise enforce the provisions of this Agreement, or to defend any claims made or threatened against the Collateral Agent arising out of the transactions contemplated hereby (including preparations for the consultations concerning any such matters). The foregoing shall not be construed to limit any other provisions of this Agreement or the Transaction Documents regarding costs and expenses to be paid by Debtor.

(i) Notices. Except as otherwise provided herein, all notices, demands, and requests that either party is required or elects to give to the other shall be in writing and shall be governed by the provisions of Section 9(a) of the Security Agreement.

(j) Termination by Agent. Collateral Agent shall release its security interest in the Intellectual Property Collateral at such time as the Obligations have been fully and finally discharged, the outstanding Notes have been paid in full in cash, and the Secured Parties' obligation to provide additional credit under the Purchase Agreement has been terminated, and in such event at the reasonable request of Debtor Secured Parties and Collateral Agent each shall, at Debtor's expense, make such filings with the State of Delaware and the United States Patent and Trademark Office and the United States Copyright Office as may be deemed by Debtor to be necessary or appropriate to evidence such release and terminate any financing statement nor notice relating to the liens and security interests created hereby. In the event that, for any reason, any portion of such payments to the Secured Parties is set aside or restored, whether voluntarily or involuntarily, after the making thereof, then the obligation intended to be satisfied thereby shall be revived and continued in full force and effect as if said payment or payments had not been made.

(k) Integration. This Agreement, together with the other Transaction Documents, reflect the entire understanding of the parties with respect to the transactions contemplated hereby and shall not be contradicted or qualified by any other agreement, oral or written, entered into before the date hereof.

(l) Resolution of Conflicts. In the event that any express provision or term of this Agreement conflicts with the express provisions and terms of the Purchase Agreement, the provision or term in the Purchase Agreement shall control.

(m) Reserved.


(n) Collateral Agent. In the event that the Collateral Agent shall resign as Collateral Agent and a successor Collateral Agent shall be appointed in accordance with Article II of the Purchase Agreement, this Agreement shall be deemed to be between the Debtor and such successor Collateral Agent. In the event that the Collateral Agent shall resign as Collateral Agent and no successor is appointed, then this Agreement shall be deemed to be between the Debtor and the Secured Parties.

[Signature Page Follows.]

IN WITNESS WHEREOF, the parties have executed this Agreement on the date first written above.

DEBTOR:

NUVENTIX, INC.

DocuSigned by:

By: _____
Name: James P. Balthazar
Title: President & CEO

COLLATERAL AGENT,

on behalf of itself and the Secured Parties:

**CENTERPOINT VENTURE FUND III
(Q), L.P.**

By: CenterPoint Associates III, L.P.
Its: General Partner

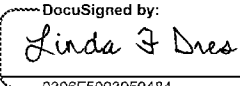
DocuSigned by:

By: _____
Linda F. Dres
Controller

EXHIBIT A

PATENTS

. Set forth below is a list of the Company's registered patents and pending patent applications.

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX001USP	60/704,049	Mahalingam Heffington Glezer	SYNTHETIC JET EJECTOR FOR AUGMENTATI ON OF PUMPED LIQUID LOOP COOLING AND ENHANCEMEN T OF POOL AND FLOW BOILING	Completed Received instructions from client to convert to U.S. utility application only	07/29/2005
NVTX001US0	11/494,913	Mahalingam Heffington Glezer	SYNTHETIC JET EJECTOR FOR AUGMENTATI ON OF PUMPED LIQUID LOOP COOLING AND ENHANCEMEN T OF POOL AND FLOW BOILING	Abandoned Published 2/1/2007 as U.S. Pub. No. US-2007- 0023169-A1	07/28/2006
NVTX001USC1	12/829,808	Mahalingam Heffington Glezer	SYNTHETIC JET EJECTOR FOR AUGMENTATI ON OF PUMPED LIQUID LOOP COOLING AND ENHANCEMEN T OF POOL AND FLOW BOILING	Pending Office Action issued 08/12/2013 Response due 11/12/2013	07/02/2010

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX002US0	U.S. Patent No. 8,069,910 (11/248,542)	Beltran Mahalingam Heffington Glezer	ACOUSTIC RESONATOR FOR SYNTHETIC JET GENERATION FOR THERMAL MANAGEMENT	Issued December 6, 2011 3.5 Year Maintenance Fee due 06/06/2015	10/12/2005
NVTX003US0	11/265,778	Mahalingam Heffington	SYNTHETIC JET COOLING SYSTEM FOR LED MODULE	Issued April 26, 2011 Published 5/3/07 as U.S. Pub. No. US-2007- 0096118-A1 3.5 Year Maintenance Fee due 10/26/2014	11/02/2005
NVTX003PCT	PCT/US06/0430 81	Mahalingam Heffington	SYNTHETIC JET COOLING SYSTEM FOR LED MODULE	Completed . Filed regional application for Germany, the Netherlands, and Great Britain . Filed national application in Japan	11/2/2006
NVTX003EP Regional: Germany Netherlands Gr. Britain	06 836 931.3	Mahalingam Heffington	SYNTHETIC JET COOLING SYSTEM FOR LED MODULE	Pending Eighth Maintenance fee due 11/30/2013	11/02/2006

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX003JP	2008-539084	Mahalingam Heffington	SYNTHETIC JET COOLING SYSTEM FOR LED MODULE	Abandoned Sent instructions to Japan associate to abandon application per client instructions on 8/24/10	05/01/2008
NVTX004USP	60/750,656	Mahalingam	SYNTHETIC JET EJECTOR FOR COOLING RUGGADIZED CARD	Completed Per client 9/14/06, no U.S. or foreign applications to be filed	12/14/2005
NVTX005USP	60/736,412	Glezer Mahalingam Heffington	SYNTHETIC JET HEAT PIPE THERMAL MANAGEMENT SYSTEM	Completed Per client 9/14/06, no foreign applications to be filed; U.S. utility to be filed	11/14/2005
NVTX005US0	U.S. Patent No. 7,607,470 (11/599,628)	Glezer Mahalingam Heffington	SYNTHETIC JET HEAT PIPE THERMAL MANAGEMENT SYSTEMS	Issued 3.5 Year Maintenance Fee due 04/27/2017	11/13/2006
NVTX006USP	60/736,444	Mahalingam Glezer	THERMAL MANAGEMENT SYSTEM FOR DISTRIBUTED HEAT SOURCES	Completed Filed in U.S. only	11/14/2005
NVTX006US0	U.S. Patent No. 7,606,029 (11/599,603)	Mahalingam Glezer	THERMAL MANAGEMENT SYSTEM FOR DISTRIBUTED HEAT SOURCES	Issued 3.5 Year Maintenance Fee due 04/20/2017	11/13/2006

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX007USP	60/753,074	Mahalingam Glezer	SYNTHETIC JET COOLING TECHNIQUES FOR BATTERIES AND CHARGERS	Completed Converted to U.S. utility application 12/19/2006	12/21/2005
NVTX007US0	U.S. Patent No. 8,030,886 (11/641,473)	Mahalingam Glezer	THERMAL MANAGEMENT OF BATTERIES USING SYNTHETIC JETS	Issued October 4, 2011 3.5 Year Maintenance fee due 04/04/2015	12/19/2006
NVTX007USD1	12/904,444	Mahalingam Glezer	THERMAL MANAGEMENT OF BATTERIES USING SYNTHETIC JETS	Pending Response to Office Action due 10/10/2013	10/14/2010
NVTX008USP	60/737,920	Mahalingam Janak Lutz	SMALL FORM FACTOR SYNTHETIC JET COOLING SOLUTIONS FOR PCI EXPRESS CARDS	Completed Combined with NVTX004USP and NVTX010USP and filed as one utility application (NVTX010US0)	11/18/2005
NVTX010USP	60/755,603	Mahalingam Heffington	SYNTHETIC JET EJECTOR FOR THE THERMAL MANAGEMENT OF PCI CARDS	Completed Combined with NVTX004USP and NVTX008USP and filed as one utility application (NVTX010US0)	12/31/2005

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX010US0	U.S. Patent No. 8,430,644 (11/601,608)	Mahalingam Glezer Heffington Lutz	SYNTHETIC JET EJECTOR FOR THE THERMAL MANAGEMENT OF PCI CARDS	Issued 3.5 year Maintenance Fee due October 30, 2016	11/17/2006
NVTX010USD1 (Divisional)	13/791,197	Mahalingam Glezer Heffington Lutz	SYNTHETIC JET EJECTOR FOR THE THERMAL MANAGEMENT OF PCI CARDS	Pending Awaiting first Office Action Published 07/25/2013 as U.S. Pub. US-2013- 0188307	03/08/2013
NVTX011WO (PCT)	PCT/US04/0217 06	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Completed Filed in Australia, China, Europe (Great Britain only); Japan, and the U.S.	07/07/2004
NVTX011AU (Australia) Assigned to GTRC	2004258530	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Abandoned per client request April 2010	07/07/2004
NVTX011CN ABANDONED (China) Assigned to GTRC	200480025633.2	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Abandoned per client instructions June 1, 2009	07/07/2004

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX011GB (Europe / Great Britain) Assigned to GTRC	0600751.2 GB GB Patent No. 2419644	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Issued 11th Annuity due July 31, 2014	07/07/2004
NVTX011JP (Japan) Assigned to GTRC	2006-518864	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Abandoned per client instructions 05/2010	07/07/2004
NVTX011JP-D1 (Japan) Assigned to GTRC	2009-275948	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Divisional of 2006-518864 Abandoned per client request 05/2010	12/03/2009
NVTX011US0 Assigned to GTRC	11/325,329	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Abandoned Published 9/7/2006 as U.S. Pub. No. US-2006-0196638-A1	02/15/2006
NVTX011US1 Assigned to GTRC	11/406,924	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Abandoned per client request Published 8/24/2006 as U.S. Pub. No. US-2006-0185822-A1	04/18/2006

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX011US2 Assigned to GTRC	NOT FILED	Glezer Mahalingam	SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING DISTRIBUTED SYNTHETIC JET ACTUATORS	Not filed per client instructions to abandon 011 portfolio	
NVTX012USP	60/776,649	Reichenbach Booth	ELECTRONICS PACKAGE FOR SYNTHETIC JET EJECTORS	Completed Filed PCT and U.S. only	02/23/2006
NVTX012US0	Patent No. 8,035,966 11/710,586	Reichenbach Booth	ELECTRONICS PACKAGE FOR SYNTHETIC JET EJECTORS	Issued 10/11/2011 3.5 Year Maintenance Fee due 04/11/2015	02/22/2007
NVTX012PCT	PCT/US07/0469 7	Reichenbach Booth	ELECTRONICS PACKAGE FOR SYNTHETIC JET EJECTORS	Completed · Filed Regional application in Europe designating Germany and The Netherlands · Filed National application in China	02/22/2007
NVTX012EP Regional: Germany & The Netherlands	Patent No. EP 1 989 051 B1 App. No. 07 751 457.8	Reichenbach Booth	ELECTRONICS PACKAGE FOR SYNTHETIC JET EJECTORS	Granted Issued: 01/25/2012 Patent Term expires 02/23/2026	08/22/2008

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX012DE Regional: Germany	Patent No. EP 1 989 051 B1 App. No. 07 751 457.8	Reichenbach Booth	ELECTRONICS PACKAGE FOR SYNTHETIC JET EJECTORS	Granted Issued: 01/25/2012 Patent Term expires 02/23/2026 Annuity due 02/28/2014	08/22/2008
NVTX012NL Regional: The Netherlands	Patent No. EP 1 989 051 B1 App. No. 07 751 457.8	Reichenbach Booth	ELECTRONICS PACKAGE FOR SYNTHETIC JET EJECTORS	Granted Issued: 01/25/2012 Patent Term expires 02/23/2026 Annuity due 02/28/2014	08/22/2008
NVTX012CN	200780014572.3	Reichenbach Booth	ELECTRONICS PACKAGE FOR SYNTHETIC JET EJECTORS	Abandoned per client request 11/24/2010	11/14/2008
NVTX013USP	60/802,954	Glezer Diamond Heffington Mahalingam Grimm Schwickert	METHODS FOR REDUCING THE NON-LINEAR BEHAVIOR OF ACTUATORS USED FOR SYNTHETIC JETS	Completed Filed in U.S. only	05/23/2006
NVTX013US0	11/804,898	Glezer Diamond Heffington Mahalingam Grimm Schwickert	METHODS FOR REDUCING THE NON-LINEAR BEHAVIOR OF ACTUATORS USED FOR SYNTHETIC JETS	Pending Published 2/21/08 as U.S. Pub. No. US-2008- 0043061-A1 Response to Advisory Action due 08/29/2013	05/21/2007

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX014US0 Assigned to GTRC	11/205,665	Glezer Heffington Smith	APPARATUS AND METHOD FOR ENHANCED HEAT TRANSFER	Abandoned in favor of NVTX014USC1 Published 3/31/2006 as U.S. Pub. No. US-2006- 0060331-A1	08/07/2005
NVTX014USC1 Assigned to GTRC	12/966,446	Glezer Heffington Smith	APPARATUS AND METHOD FOR ENHANCED HEAT TRANSFER	Pending Published 06/14/2012 as US-2012- 0145361-A1	12/13/2010
NVTX014PCT (GTRC)	PCT/US2005/0295 77	Glezer Heffington Smith	APPARATUS AND METHOD FOR ENHANCED HEAT TRANSFER	Completed Per client 9/14/06, do not file national or regional applications	08/09/2005
NVTX015US0 Assigned to GTRC	Patent No. 7,252,140 11//217,759	Glezer Mahalingam	APPARATUS AND METHOD FOR ENHANCED HEAT TRANSFER	Issued 7.5 Year Maintenance Fee due 2/7/2015	09/01/2005
NVTX015PCT (GTRC)	PCT/US2005/0313 65	Glezer Mahalingam	APPARATUS AND METHOD FOR ENHANCED HEAT TRANSFER	Completed Per client 9/14/06, do not file national or regional applications	09/02/2005
NVTX016USP	Filed 06/22/06	Grimm	VIBRATION ISOLATION SYSTEM FOR SYNTHETIC JET DEVICES	Completed Filed in U.S. only	06/22/2006

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX016US0	Patent No. 8,136,576 11/821,582	Grimm	VIBRATION ISOLATION SYSTEM FOR SYNTHETIC JET DEVICES	Issued 3.5 Year Maintenance Fee due 9/20/2015	06/22/2007
NVTX017USP	60/818,717	Grimm Lutz	MOLDABLE HOUSING DESIGN FOR SYNTHETIC JET EJECTOR	Completed Filed in U.S. only as NVTX026US0	07/05/2006
NVTX018OP	Not applicable	Not applicable	Opinion re U.S. Patent No. 7,023,697 ('697 patent) Issued to Intel Corporation	Closed	N/A
NVTX019EP (GTRC)	EP 1 040 736	Glezer Allen	SYNTHETIC JET ACTUATORS FOR COOLING HEATED BODIES AND ENVIRONMENTS	Issued 16th Annuity due 11/12/2013	11/12/1998
NVTX020USP	60/851,660	Jones Heffington Mahalingam	THERMAL MANAGEMENT OF VERY SMALL FORM FACTOR PROJECTORS WITH SYNTHETIC JETS	Completed Filed PCT only	10/13/2006
NVTX020PCT	PCT/US07/0218 21	Jones Heffington Mahalingam	THERMAL MANAGEMENT OF VERY SMALL FORM FACTOR PROJECTORS WITH SYNTHETIC JETS	Completed Published 4/24/2008 as WO 2008/048493 Filed in U.S. only	10/11/2007

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX020US0	U.S. Patent Number 8,388,142 (12/445,114)	Jones Heffington Mahalingam	THERMAL MANAGEMENT OF VERY SMALL FORM FACTOR PROJECTORS WITH SYNTHETIC JETS	Issued 3.5 year Maintenance Fee due 09/05/2016 Published 05/06/2010 as U.S. Pub. No. US-2010-0110635-A1	04/10/2009
NVTX020USD1	13/753,861	Jones Heffington Mahalingam	THERMAL MANAGEMENT OF VERY SMALL FORM FACTOR PROJECTORS WITH SYNTHETIC JETS	Pending	01/30/2013
NVTX021USP	60/876,860	Heffington Mahalingam Jones Darbin	THERMAL MANAGEMENT SYSTEM FOR LED ARRAY	Completed Filed in U.S. only	12/22/2006
NVTX021US0	U.S. Patent No. 7,784,972 (12/005,159)	Heffington Mahalingam Jones Darbin	THERMAL MANAGEMENT SYSTEM FOR LED ARRAY	Issued Published June 26, 2008 as U.S. Pub. No. US-2008-0151541-A1 3.5 Year Maintenance Fee due 02/28/2014	12/22/2007

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX021USD	U.S. Patent No. 7,819,556 (12/072,610)	Heffington Mahalingam Jones Darbin	THERMAL MANAGEMENT SYSTEM FOR LED ARRAY (Divisional of 021US0)	Issued Published 09/11/2008 as U.S. Pub. No. US-2008- 0219007-A1 3.5 Year Maintenance Fee due 04/26/2014	02/26/2008
NVTX022USP	Per client, do not file	Heffington Mahalingam Grimm Darbin	THERMAL MANAGEMENT SYSTEM FOR CENTRAL PROCESSING UNIT	Per client, do not file	N/A
NVTX024USP	60/933,185	Heffington Wilcox Williams Reichenbach	SYNTHETIC JET EJECTOR WITH VIEWING WINDOW AND TEMPORAL ALIASING	Completed Filed in U.S. only	06/04/2007
NVTX024US0	U.S. Patent No. 7,768,779 (12/156,846)	Heffington Wilcox Williams Reichenbach	SYNTHETIC JET EJECTOR WITH VIEWING WINDOW AND TEMPORAL ALIASING	Issued 3.5 Year Maintenance Fee due 02/13/2014	06/04/2008
NVTX026US0	11/825,158 (Claims priority from NVTX017USP)	Grimm Lutz	MOLDABLE HOUSING DESIGN FOR SYNTHETIC JET EJECTOR	Pending Published 1/10/2008 as U.S. Pub. No. US-2008- 0009187-A1	07/03/2007
NVTX030USP	60/997,256	Grimm Lutz Mahalingam Booth Schwickert	VIBRATION BALANCED SYNTHETIC JET EJECTOR	Completed Filed in U.S. only	10/01/2007

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX030US0	12/286,794	Grimm Lutz Mahalingam Booth Schwickert	VIBRATION BALANCED SYNTHETIC JET EJECTOR	Pending Awaiting Office Action	10/01/2008
NVTX031USP	61/000,321	Booth Mahalingam Jones Grimm Pergrande	LIGHT FIXTURE WITH MULTIPLE LEDS AND SYNTHETIC JET THERMAL MANAGEMENT SYSTEM	Completed Filed in U.S. only	10/24/2007
NVTX031US0	12/288,144 U.S. 8,066,410	Booth Mahalingam Jones Grimm Pergrande	LIGHT FIXTURE WITH MULTIPLE LEDS AND SYNTHETIC JET THERMAL MANAGEMENT SYSTEM	Issued 11/29/2010 3.5 Year Maintenance Fee due 05/29/2015	10/16/2008
NVTX031USC1	13/251,626	Booth Mahalingam Jones Grimm Pergande	LIGHT FIXTURE WITH MULTIPLE LEDS AND SYNTHETIC JET THERMAL MANAGEMENT SYSTEM	Pending Published 4/4/13 as US Publication No. 2013/0083520 Awaiting first Office Action PTO estimates October 2013	10/03/2011
NVTX032USP	61/002,237	Darbin Schwickert Booth Reichenbach Ball Farrell McFatter	METHOD AND APPARATUS FOR CONTROLLING DIAPHRAGM DISPLACEMENT IN SYNTHETIC JET ACTUATORS	Completed Filed U.S. and PCT applications	11/06/2007

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX032PCT	PCT/US08/12550	Darbin Schwickert Booth Reichenbach Ball Farrell McFatter	METHOD AND APPARATUS FOR CONTROLLING DIAPHRAGM DISPLACEMENT IN SYNTHETIC JET ACTUATORS	Expired Per client instruction 04/2010, no national or regional applications will be filed	11/06/2008
NVTX032US0	U.S. Patent No. 8,290,724 (12/291,337)	Darbin Schwickert Booth Reichenbach Ball Farrell McFatter	METHOD AND APPARATUS FOR CONTROLLING DIAPHRAGM DISPLACEMENT IN SYNTHETIC JET ACTUATORS	Issued 3.5 Year Maintenance Fee due 04/16/2016	11/06/2008
NVTX033USP	61/127,445	Darbin Heffington Booth Mahalingam	THERMAL MANAGEMENT SYSTEM FOR CARD CAGES	Completed Converted in U.S. and Germany	05/13/2008
NVTX033US0	U.S. Patent No. 7,760,499 (12/465,645)	Darbin Heffington Booth Mahalingam	THERMAL MANAGEMENT SYSTEM FOR CARD CAGES	Issued 3.5 Year Maintenance Fee due 01/20/2014	07/20/2010
NVTX033DE (Germany)	10 2009 020 817.8	Darbin Heffington Booth Mahalingam	THERMAL MANAGEMENT SYSTEM FOR CARD CAGES	Pending Request for Examination due 05/11/2016	05/11/2009
NVTX034USP	61/134,984	Heffington Mahalingam	THERMAL MANAGEMENT OF LED ILLUMINATION DEVICES WITH SYNTHETIC JET EJECTORS	Completed Filed in U.S. only	07/15/2008

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX034US0	12/503,181	Mahalingam Heffington	THERMAL MANAGEMENT OF LED ILLUMINATION DEVICES WITH SYNTHETIC JET EJECTORS	Abandoned in favor of NVTX034USC1 continuation application Published 02/11/2010 as U.S. Publication No. US-2010-0033071-A1	07/15/2009
NVTX034USC1	12/902,295	Mahalingam Heffington	THERMAL MANAGEMENT OF LED ILLUMINATION DEVICES WITH SYNTHETIC JET EJECTORS	Allowed Published 04/21/2011 Publication no. US-2011-0089804-A1 Issued patent due 12/26/2013	10/12/2010
NVTX034USC2 (CIP of 034USC1 & also claims priority to NVTX045USP)	13/470,523	Mahalingam Heffington Darbin Grimm Noska	THERMAL MANAGEMENT OF LED ILLUMINATION DEVICES WITH SYNTHETIC JET EJECTORS	Pending Awaiting first Office Action PTO estimates 10/2014 Published 11/15/2012 as U.S. Pub. No. US-2012-0287537-A1	05/14/2012
NVTX034USC3 (CON of 034USC2)	13/969,976	Mahalingam Heffington Darbin Grimm	THERMAL MANAGEMENT OF LED ILLUMINATION DEVICES WITH SYNTHETIC JET EJECTORS	Pending Awaiting Filing Receipt	08/19/2013

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX035USP	61/134,966	Grimm	ADVANCED SYNJET COOLER DESIGN FOR LED LIGHT MODULES	Completed Filed in U.S. only	07/15/2008
NVTX035US0	12/503,832	Grimm	ADVANCED SYNJET COOLER DESIGN FOR LED LIGHT MODULES	Issued Published 02/18/2010 as U.S. Pub. No. US-2010- 0039012-A1 3.5 Year Maintenance Fee due 04/30/2016	07/15/2009
NVTX035USC1	13/647,123	Grimm	ADVANCED SYNJET COOLER DESIGN FOR LED LIGHT MODULES	Pending Awaiting Office Action	10/08/2012
NVTX036DE (claims priority to 036PCT)		Darbin Heffington Schwickert Mahalingam Booth Grimm Doss	SYSTEMS AND METHODOLOGIES FOR PREVENTING DUST AND PARTICLE CONTAMINATION OF SYNTHETIC JET EJECTORS	Will not be filed pursuant to client's instructions March 25, 2013	
NVTX036PCT	PCT/US11/6641 6	Darbin Heffington Schwickert Mahalingam Booth Grimm Doss	SYSTEMS AND METHODOLOGIES FOR PREVENTING DUST AND PARTICLE CONTAMINATION OF SYNTHETIC JET EJECTORS	Completed No national filings per client 04/03/2013	12/21/2011

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX036US0	13/332,923	Darbin Heffington Schwickert Mahalingam Booth Grimm Doss	SYSTEMS AND METHODOLOGIES FOR PREVENTING DUST AND PARTICLE CONTAMINATION OF SYNTHETIC JET EJECTORS	Pending Petition Granted re Uncooperative Inventor: Doss Published 07/19/2012 as U.S. Pub. No. US-2012- 0181360-A1 First Action Prediction Letter estimated April 2014	12/21/2011
NVTX036USC1 (Also claims priority to NVTX041USP)	13/442,445	Heffington Schwickert Darbin Grimm Doss Mahalingam Frodge Booth	SYNTHETIC JET EJECTOR WITH SEALED MOTOR	Pending Petition Granted re Uncooperative Inventor: Doss Awaiting Office Action	04/09/2012
NVTX036USD1	13/450,072	Schwickert Darbin Heffington Mahalingam Booth Grimm Doss	SYSTEMS AND METHODOLOGIES FOR PREVENTING DUST AND PARTICLE CONTAMINATION OF SYNTHETIC JET EJECTORS	Pending Published 08/09/2012 as U.S. Pub. No. US-2012- 1099667-A1	04/18/2012
NVTX036USP	61/425,385	Darbin Heffington Schwickert Mahalingam Booth Grimm Doss	SYSTEMS AND METHODOLOGIES FOR PREVENTING DUST AND PARTICLE CONTAMINATION OF SYNTHETIC JET EJECTORS	Converted U.S. Only	12/21/2010

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX037US0	Not yet filed	Booth	SYNTHETIC JET AND HEAT SINK CONFIGURATION FOR EFFECTIVE USE OF ENTIRE LENGTH OF HEAT SINK	Not yet filed Application drafted	
NVTX038USP	Not yet filed	Booth	LOW PROFILE SYNTHETIC JET EJECTOR	Not yet filed Application drafted	
NVTX039USP	61/304,427	Grimm Darbin Poynot	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	Completed Filed in U.S. and PCT	02/13/2010
NVTX039US0	13/026,220	Grimm Darbin Poynot	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	Pending Awaiting first Office Action First Action Prediction Letter estimates December 2014	02/12/2011
NVTX039PCT	PCT/US11/24665	Grimm Darbin Poynot	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	Completed National / regional applications due 8/13/2012 Filed in China, Australia & Germany per client instructions	02/12/2011

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX039AU (Australia)	2011215590	Grimm Darbin Poynot	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	Pending Formal Request for Examination filed 2/20/2013	07/25/2012
NVTX039CN (China)	2011 8000 9023.3	Grimm Darbin Poynot	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	Pending Sent instructions to associate 11/14/12 to request formal examination	08/10/2012
NVTX039DE (Germany)	11 2011 100 524.5	Grimm Darbin Poynot	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	Pending	08/09/2012
NVTX040USP	61/355,308	Grimm Darbin	LOW FORM FACTOR SYNTHETIC JET THERMAL MANAGEMENT SYSTEM	Completed PCT application filed	06/16/2010
NVTX040PCT	PCT/US11/4079 4	Grimm Darbin	LOW FORM FACTOR SYNTHETIC JET THERMAL MANAGEMENT SYSTEM	Pending Nationals due 12/16/2012 U.S. only per client	06/16/2011

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX041USP	61/486,985	Schwickert Heffington Darbin Grimm Doss Mahalingam Frodge	SYNTHETIC JET EJECTOR WITH SEALED MOTOR	Converted Filed as NVTX036USC1 to combine similar subject matter NO ASSIGNMENT FROM DOSS	05/17/2011
NVTX042USP	61/411,654	Mahalingam Darbin Ernst	SYSTEMS AND METHODOLOGIE S FOR ACHIEVING ACOUSTIC CANCELLATION IN SYNTHETIC JET EJECTORS	Completed Filed U.S. only per client	11/09/2010
NVTX042US0	13/292,210	Mahalingam Darbin Ernst	SYSTEMS AND METHODOLO GIES FOR ACHIEVING ACOUSTIC CANCELLATI ON IN SYNTHETIC JET EJECTORS	Pending Published May 10, 2012 US-2012- 0111969-A1 Awaiting first Office Action PTO estimates 02/2013	11/09/2011
NVTX043USP	61/487,179	Mahalingam Schwickert Booth	SYSTEMS AND METHODOLO GIES FOR PREVENTING DUST AND PARTICLE CONTAMINAT ION OF SYNTHETIC JET EJECTORS	Expired Conversion due May 17, 2012 Subject matter same as NVTX036USC1 ; therefore, will not be converted	05/17/2011

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX044USP	Not filed - see comments	Poynot Grimm Williams Booth Noska Jones Mahalingam	SYSTEMS AND METHODOLOGIES FOR INTEGRATING COMPONENTS IN SYNTHETIC JET EJECTORS	Separated into 3 applications (050USP, 051USP, 052USP) to preserve ability to file non-publication requests on individual inventions, per Steve Darbin's request	N/A
NVTX045USP	61/486,838	Noska Mahalingam Booth Poynot Schwickert	COOLING CONCEPTS	Converted Filed as CIP of NVTX034USC1 (NVTX034USC 2)	05/17/2011
NVTX046USP	61/487,260	Ernst Booth Reichenbach Darbin Ball Diamond	DRIVE AND CONTROL ELECTRONICS	Converted Combined into U.S. application for NVTX052US0	05/17/2011
NVTX047USP	6/1487,277	Mahalingam Schwickert Hime Heffington Reichenbach Kelly Booth Williams Ernst	POWER DELIVERY TO DIAPHRAGMS	Completed Filed in U.S. and PCT per client	05/17/2011

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX047PCT	PCT/US12/3821 3	Mahalingam Schwickert Hime Heffington Reichenbach Kelly Booth Williams Ernst	POWER DELIVERY TO DIAPHRAGMS	Pending National patent applications due 11/18/2013 Published 11/22/2012 as WO 2012/158842 A1	05/16/2012
NVTX047US0	13/473,535	Mahalingam Schwickert Hime Heffington Reichenbach Kelly Booth Williams Ernst	POWER DELIVERY TO DIAPHRAGMS	Pending Awaiting first Office Action (PTO estimates July 2014) Published 11/22/2012 as US 2012- 0292401-A1	05/16/2012
NVTX048USP	61/487,278	Williams Schwickert Diamond Darbin Grimm Doss Mahalingam Poynot	ENGINE CONCEPTS	Converted Combined into U.S. patent application NVTX052US0 NO ASSIGNMENT FROM DOSS	05/17/2011
NVTX050USP	61/486,874	Poynot Mahalingam	SYSTEMS AND METHODOLOGIES FOR MECHANICALLY SECURING A DIAPHRAGM WITHIN A SYNTHETIC JET EJECTOR	Converted Combined into U.S. patent application NVTX052US0	05/17/2011

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX051USP	61/486,913	Poynot Williams Booth Noska	SYSTEMS AND METHODOLOGIES FOR INTEGRATING COMPONENTS IN SYNTHETIC JET EJECTORS	Converted Combined into U.S. patent application NVTX052US0	05/17/2011
NVTX052USP	61/486,955	Williams Jones	PRESS-ON HEAT SINK MOUNT FOR SYNTHETIC JET EJECTORS	Converted Filed U.S. only	05/17/2011
NVTX052US0	13/474,489	Williams Jones Poynot Booth Noska Mahalingam Schwickert Diamond Darbin Grimm Doss Hime Heffington Reichenbach Kelly Ernst Ball	SYNTHETIC JET ACTUATORS AND EJECTORS AND METHODS FOR USING THE SAME	Pending Awaiting Office Action	5/17/2012
NVTX053USP	61/564,930	Mahalingam Jones Wilcox Ernst Bringhurst Darbin	SYNTHETIC JET EJECTOR WITH SELECTABLE AUDIO FOOTPRINT	Converted Converted in the U.S. only	11/30/2011
NVTX053US0	13/691,700	Mahalingam Jones Wilcox Ernst Bringhurst Darbin	SYNTHETIC JET EJECTOR WITH SELECTABLE AUDIO FOOTPRINT	Pending Published 05/30/2013 as US 2013/0133865	11/30/2012

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX054USP	61/611,923	Mahalingam Noska	PELTIER COOLER EQUIPPED WITH SYNTHETIC JET EJECTORS	Converted 3/18/13 U.S. only per client 9/14/2012	03/16/2012
NVTX054US0	13/846,915	Mahalingam Noska	PELTIER COOLER EQUIPPED WITH SYNTHETIC JET EJECTORS	Pending Awaiting first Office Action	03/18/2013 (03/16/2013 was a Saturday)
NVTX055USP	61/611,863	Mahalingam Jones Heffington Darbin Schwickert	AUGMENTATI ON OF FANS WITH SYNTHETIC JET EJECTORS	Converted U.S. only per client 12/14/2012	03/16/2012
NVTX055US0	13/846,646	Mahalingam Jones Heffington Darbin Schwickert	AUGMENTATI ON OF FANS WITH SYNTHETIC JET EJECTORS	Pending	03/18/2013 (03/16/13 was a Saturday)
NVTX056USP	61/614,512	Grimm Poynot Williams Darbin Jones Mahalingam	SYNTHETIC JET EJECTORS WITH IMPROVED MANUFACTU RABILITY	Converted PCT only per client 12/14/2012	03/23/2012
NVTX056PCT	PCT/US13/3377 0	Grimm Poynot Williams Darbin Jones Mahalingam	SYNTHETIC JET EJECTORS WITH IMPROVED MANUFACTU RABILITY	Pending National country filings due 09/23/2014	03/25/13 (03/23/13 was a Saturday)
NVTX057US0		Darbin	UNIVERSAL REPLACEMEN T LAMP DISCLOSURE	Not yet drafted	

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX058USP	61/768,189	Mahalingam Williams Darbin Noska Jones	THERMAL MANAGEMENT SYSTEM COMPRISING A HEAT PIPE, HEAT FINS AND A SYNTHETIC JET EJECTOR	Pending Conversion due 02/22/2014	02/22/2013
NVTX059USP	61/768,090	Mahalingam Poynot Darbin	MODULAR SYNTHETIC JET EJECTOR AND SYSTEMS INCORPORATING THE SAME	Pending Conversion due 02/22/2014	02/22/2013
NVTX060USP	61/770,707	Balthazar Mahalingam	SYNTHETIC JET ACTUATOR EQUIPPED WITH A PIEZOELECTRIC ACTUATOR AND A VISCIOUS SEAL	Pending Conversion due 02/28/2014	02/28/2013
NVTX061USP	61/771,271	Poynot Jones	SYNTHETIC JET ACTUATOR EQUIPPED WITH ENTRAINMENT FEATURES	Pending Conversion due 03/01/2014	03/01/2013

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX062USP	61/771,289	Booth Schwickert Mahalingam	SYNTHETIC JET ACTUATOR EQUIPPED WITH A PIEZOELECTR IC ACTUATOR AND A VISCOUS SEAL	Pending Conversion due 03/01/2014	03/01/2013
NVTX063USP	61/772,064	Schwickert	SYNTHETIC JET ACTUATOR MOTOR EQUIPPED WITH MEANS FOR MAGNETIC FLUX PROFILING	Pending Conversion due 03/04/2014	03/04/2013
NVTX064USP	61/774,974	Schwickert	SYNTHETIC JET ACTUATOR MOTOR EQUIPPED WITH MEANS FOR MAGNETIC FLUX PROFILING	Pending Conversion due 03/08/2014	03/08/2013
NVTX065USP	61/787,032	Reichenbach	SMART LED CONTROLLER	Pending Conversion due 03/15/2014	03/15/2013
NVTX066USP	61/776,011	Williams Poynot Grimm	LOW PROFILE SYNTHETIC JET ACTUATOR	Pending Conversion due 03/11/2014	03/11/2013

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX067USP	61/787,831	Jones	THERMAL MANAGEMENT DEVICE CONTAINING HEAT SPREADER EQUIPPED WITH HEAT PIPES AND INTEGRAL NOZZLES	Pending Conversion due 3/15/2014	03/15/2013
NVTX068USP	61/789,757	Booth	SYNTHETIC JET EJECTOR EQUIPPED WITH COLD TEMPERATURE START CONTROL DELAY	Pending Conversion due 3/15/2014	3/15/2013
NVTX069USP	61/793,137	Booth	SYNTHETIC JET EJECTOR WITH CONTROLLER TO MATCH OPERATING LEVEL TO THERMAL REQUIREMENT	Pending Conversion due 3/15/2014	3/15/2013
NVTX070USP	61/800,053	Poynot Mahalingam Darbin	SYNTHETIC JET EJECTOR EQUIPPED WITH CONTROLLER TO MATCH OPERATING LEVEL TO THERMAL REQUIREMENT	Pending Conversion due 3/15/2014	3/15/2013

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX072USP	61/800,998	Jones Darbin Schwickert	MULTIPLE DIE PACKAGE FOR LED LIGHTING APPLICATIONS INVOLVING THERMAL MANAGEMENT WITH SYNTHETIC JET	Pending Conversion due 3/15/2014	3/15/2013
NVTX073USP	61/801,39	Williams	SYSTEMS AND METHODOLOGIES FOR MITIGATING ACOUSTIC EMISSIONS IN SYNTHETIC JET EJECTORS	Pending Conversion due 3/15/2014	3/15/2013
NVTX074USP	61/801,702	Darbin Allred	SINGLE PHASE ACTUATOR DRIVE CURRENT	Pending Conversion due 3/15/2014	3/15/2013
NVTX075USP	61/802,218	Makhlouf Darbin Mahalingam	THERMAL MANAGEMENT OF POWER SUPPLIES WITH SYNTHETIC JET EJECTORS	Pending Conversion due 3/15/2014	3/15/2013
NVTX077USP	61/776,028	Williams	METHOD OF ESTIMATING THE STROKE OF VARIABLE-RELUCTANCE SYNTHETIC JET ACTUATORS USING COIL IMPEDENCE	Pending Conversion due 03/11/2014	03/11/2013

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX078USP	61/776,011	Williams Poynot	NOZZLE CONFIGURATION FOR SYNTHETIC JET ACTUATOR FOR RE-INGESTION REDUCTION	Pending Conversion due 03/11/2014	03/11/2013
NVTX079USP	61/777,185	Grimm	FLAT SPRING CONFIGURATIONS FOR SYNTHETIC JET ACTUATOR	Pending Conversion due 03/12/2014	03/12/2013
NVTX080USP	61/793,720	Booth	SYSTEM AND METHOD FOR CONTROLLING SYNTHETIC JET EJECTOR POWER DEMAND IN DIMMING APPLICATIONS	Pending Conversion due 3/15/2014	03/15/2013
NVTX081USP	61/805,607	Jones	MODULAR SYNTHETIC JET BASED THERMAL MANAGEMENT SYSTEM FOR SHROUDED OUTDOOR REMOTE RADIO HEAD UNITS	Pending Conversion due 3/27/2014	03/27/2013

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX082USP	61/843,399	Mahalingam	SYNTHETIC JET ACTUATORS AS MYULTIFUNCTIONAL DEVICES IN MOBILE TECHNOLOGY PLATFORMS	Pending Conversion due 07/07/2014	07/07/2013
NVTX083USP	61/809,536	Jeff Uibel	MICRO SYNTHETIC JET EJECTOR	Pending Conversion due 04/08/2014	04/08/2013
NVTX084USP	61/837,526	Grimm Darbin	DIAPHRAGMS FOR SYNTHETIC JET ACTUATORS AND METHODS FOR MANUFACTURING THE SAME	Pending Conversion due 06/20/2014	06/20/2013
NVTX085USP	61/838,670	Williams	METHOD FOR ESTIMATING THE STROKE OF A VARIABLE RESISTANCE SYNTHETIC JET ACTUATOR	Pending Conversion due 06/24/2014	06/24/2013
NVTX086USP	NOT YET FILED				

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
NVTX087USP	61/828,894	Grimm Darbin	MOVING ARMATURE SYNTHETIC JET ACTUATOR DESIGN	Pending Conversion due 05/30/2014	05/30/2013
NVTX088USP	61/829,318	Grimm Mahalingam Darbin	MOVING ARMATURE SYNTHETIC JET ACTUATOR DESIGN WITH STACKABLE PLATES	Pending Conversion due 05/31/2014	05/31/2013
NVTX089USP	61/857,737	Tim Lucas (Influent) Darbin Mahalingam Poynot Grimm Williams	LOW PROFILE SYNTHETIC JET ACTUATOR EQUIPPED WITH MOVING ARMATURES AND STACKABLE PLATES	Pending Conversion due 07/24/2014	07/24/2013

**PATENTS LICENSED FROM GEORGIA TECH RESEARCH INSTITUTE
(transferred to F&H docket April 2011)**

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
GTEC001US0	5,758,823	Glezer Allen Coe Smith Trautman Wiltse	Synthetic Jet Actuator and Applications Thereof	Issued June 2, 1998 11.5 Year Maintenance Fee Paid 12/02/2009 Patent expires June 12, 2015	06/12/1995
GTEC002US0	6,056,204	Glezer Wiltse	Synthetic Jet Actuators for Mixing Applications	Issued May 2, 2000 PATENT EXPIRED DUE TO NON-PAYMENT OF 7.5 YEAR MAINTENANCE FEE	06/05/1997
GTEC003US0	5,988,522	Glezer Smith	Synthetic Jet Actuators for Modifying the Direction of Fluid Flows	Issued November 23, 1999 11.5 Year Maintenance Fee paid Kimberly Dunn at GTRC instructed CPI to pay fee on 4/7/2011 Patent expires June 12, 2015	06/05/1997
GTEC004US0	5,894,990	Glezer Allen Coe Smith Trautman Wiltse	Synthetic Jet Actuator and Applications Thereof	Issued April 20, 1999 11.5 Year Maintenance Fee paid 10/20/2010 Patent Expires June 12, 2015	10/09/1997

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
GTEC001US0	5,758,823	Glezer Allen Coe Smith Trautman Wiltse	Synthetic Jet Actuator and Applications Thereof	Issued June 2, 1998 11.5 Year Maintenance Fee Paid 12/02/2009 Patent expires June 12, 2015	06/12/1995
GTEC002US0	6,056,204	Glezer Wiltse	Synthetic Jet Actuators for Mixing Applications	Issued May 2, 2000 PATENT EXPIRED DUE TO NON-PAYMENT OF 7.5 YEAR MAINTENANCE FEE	06/05/1997
GTEC003US0	5,988,522	Glezer Smith	Synthetic Jet Actuators for Modifying the Direction of Fluid Flows	Issued November 23, 1999 11.5 Year Maintenance Fee paid Kimberly Dunn at GTRC instructed CPI to pay fee on 4/7/2011 Patent expires June 12, 2015	06/05/1997
GTEC005US0	6,123,145	Glezer Allen	Synthetic Jet Actuators for Cooling Heated Bodies and Environments	Issued September 26, 2000 11.5 Year Maintenance paid 2/14/2012 Patent Expires June 12, 2015	11/14/1997
GTEC006US0	6,247,525	Smith Glezer	Vibration Induced Atomizers	Issued June 19, 2001 PATENT	05/23/2000

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
GTEC001US0	5,758,823	Glezer Allen Coe Smith Trautman Wiltse	Synthetic Jet Actuator and Applications Thereof	Issued June 2, 1998 11.5 Year Maintenance Fee Paid 12/02/2009 Patent expires June 12, 2015	06/12/1995
GTEC002US0	6,056,204	Glezer Wiltse	Synthetic Jet Actuators for Mixing Applications	Issued May 2, 2000 PATENT EXPIRED DUE TO NON-PAYMENT OF 7.5 YEAR MAINTENANCE FEE	06/05/1997
GTEC003US0	5,988,522	Glezer Smith	Synthetic Jet Actuators for Modifying the Direction of Fluid Flows	Issued November 23, 1999 11.5 Year Maintenance Fee paid Kimberly Dunn at GTRC instructed CPI to pay fee on 4/7/2011 Patent expires June 12, 2015	06/05/1997
				EXPIRED DUE TO NON-PAYMENT OF 7.5 YEAR MAINTENANCE FEE	
GTEC007US0	6,588,497	Glezer Mahalingam Allen	System and Method for Thermal Management by Synthetic Jet Ejector Channel Cooling	Issued July 8, 2003 11.5 Year Maintenance Fee due January 8, 2015	04/19/2002

F&H Docket Number	U.S. / Foreign Serial No. / Patent No.	Inventors	Title	Status of Application	Date Application Filed
GTEC001US0	5,758,823	Glezer Allen Coe Smith Trautman Wiltse	Synthetic Jet Actuator and Applications Thereof	Issued June 2, 1998 11.5 Year Maintenance Fee Paid 12/02/2009 Patent expires June 12, 2015	06/12/1995
GTEC002US0	6,056,204	Glezer Wiltse	Synthetic Jet Actuators for Mixing Applications	Issued May 2, 2000 PATENT EXPIRED DUE TO NON-PAYMENT OF 7.5 YEAR MAINTENANCE FEE	06/05/1997
GTEC003US0	5,988,522	Glezer Smith	Synthetic Jet Actuators for Modifying the Direction of Fluid Flows	Issued November 23, 1999 11.5 Year Maintenance Fee paid Kimberly Dunn at GTRC instructed CPI to pay fee on 4/7/2011 Patent expires June 12, 2015	06/05/1997
			Cooling Techniques	January 8, 2015 Patent Expires April 19, 2022	

EXHIBIT B

TRADEMARKS

1. Set forth below is a list of the Company's registered trademarks and trademark applications:

F&H Docket Number	U.S. Serial No.	Inventors	Title	Status of Application	Date Application Filed
NVTX002TM0	78/604,993 Registration No. 3,428,167	N/A	FOR THE MARK: SYNJET	Registration received 5/13/2008 10-year Renewal Declaration due 5/13/2017	04-08-2005
NVTX003TM0	78/605,020	N/A	FOR THE MARK: VIBE	ABANDONED Per client, allow to go abandoned for failure to file Statement of Use PTO ABANDONED MAY 26, 2009	04-08-2005
NVTX004TM0	78/605,040	N/A	FOR THE MARK: VIDA	ABANDONED Per client, allow to go abandoned for failure to file Statement of Use PTO ABANDONED MAY 26, 2009	04-08-2005
NVTX005TM0	77/068,623 Registration No. 3,427,629	77/068,623	FOR THE MARK: NUVENTIX	Registration received 5/13/2008 10-year Renewal Declaration due 5/13/2017	12-20-2006
NVTX006TM0	77/111,934	N/A	FOR THE MARK: AERGO	ABANDONED Allowed: October 23, 2007 Per client 07/25/09, allow to go abandoned by failure to file Statement of Use PTO ABANDONED 11/23/2009	02-20-2007

EXHIBIT C

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None.