

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4416787

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECOND LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
LTI HOLDINGS, INC.	05/16/2017
AAVID NIAGARA, LLC	05/16/2017
AAVID THERMACORE, INC.	05/16/2017
AAVID THERMAL CORP.	05/16/2017
AAVID THERMALLOY, LLC	05/16/2017
LIFETIME INDUSTRIES, INC.	05/16/2017
LTI FLEXIBLE PRODUCTS, INC.	05/16/2017
NUVENTIX, INC.	05/16/2017

RECEIVING PARTY DATA

Name:	ANTARES CAPITAL LP, AS AGENT
Street Address:	500 WEST MONROE STREET
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60661

PROPERTY NUMBERS Total: 143

Property Type	Number
Patent Number:	6966590
Patent Number:	7614676
Patent Number:	7614677
Patent Number:	7540116
Patent Number:	8382124
Patent Number:	8366168
Patent Number:	8408625
Patent Number:	D697640
Patent Number:	9038322
Patent Number:	8870190
Patent Number:	D648657
Patent Number:	D651146
Patent Number:	D669820

PATENT

Property Type	Number
Patent Number:	D741231
Patent Number:	D741232
Patent Number:	D747667
Patent Number:	D760135
Patent Number:	D773342
Patent Number:	D746745
Patent Number:	9033390
Patent Number:	9068355
Patent Number:	9505357
Patent Number:	9533629
Patent Number:	8481867
Patent Number:	8299691
Patent Number:	6994152
Patent Number:	9523367
Patent Number:	6430024
Patent Number:	7823629
Patent Number:	8627879
Patent Number:	7069978
Patent Number:	7743502
Patent Number:	8286694
Patent Number:	7914529
Patent Number:	7312995
Patent Number:	6771498
Patent Number:	6688380
Patent Number:	6793009
Patent Number:	7048039
Patent Number:	6566743
Patent Number:	9423191
Patent Number:	6446706
Patent Number:	7096928
Patent Number:	7431071
Patent Number:	9273910
Patent Number:	6131650
Patent Number:	6661658
Patent Number:	8272851
Patent Number:	7017655
Patent Number:	6717813
Patent Number:	9417015

Property Type	Number
Patent Number:	7080681
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Patent Number:	8100894
Patent Number:	6800077
Patent Number:	7647961
Patent Number:	8230907
Patent Number:	8616267
Patent Number:	5917700
Patent Number:	8286693
Patent Number:	6097603
Patent Number:	9401317
Patent Number:	5991151
Patent Number:	6191946
Patent Number:	6631077
Patent Number:	9417017
Patent Number:	7111394
Patent Number:	6302192
Patent Number:	6896039
Patent Number:	7028760
Patent Number:	7066240
Patent Number:	7100679
Patent Number:	7100680
Patent Number:	6388882
Patent Number:	8066410
Patent Number:	8845138
Patent Number:	6578626
Patent Number:	6719039
Patent Number:	7149087
Patent Number:	8290724
Patent Number:	6579747
Patent Number:	8672648
Patent Number:	6828675
Patent Number:	7306028
Patent Number:	8646701
Patent Number:	7059391
Patent Number:	7044199

Property Type	Number
Patent Number:	7690419
Patent Number:	8397796
Patent Number:	6615912
Patent Number:	6437437
Patent Number:	6525420
Patent Number:	6858929
Patent Number:	7005738
Patent Number:	6945317
Patent Number:	9184109
Patent Number:	7932535
Patent Number:	8772987
Patent Number:	9452463
Patent Number:	8430644
Patent Number:	7768779
Patent Number:	7607470
Patent Number:	9042100
Patent Number:	6536510
Patent Number:	6804117
Patent Number:	8777456
Patent Number:	9016903
Patent Number:	8770765
Patent Number:	6657121
Patent Number:	6972365
Patent Number:	7071408
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Patent Number:	7784972
Patent Number:	7819556
Patent Number:	9568257
Patent Number:	8136576
Application Number:	14672660
Application Number:	14594223
Application Number:	15346911
Application Number:	14996861
Application Number:	14672982
Application Number:	15149557
Application Number:	14119814
Application Number:	13789751

Property Type	Number
Application Number:	13074987
Application Number:	13772606
Application Number:	14843210
Application Number:	13877570
Application Number:	13702659
Application Number:	13654852
Application Number:	15083474
Application Number:	14209283
Application Number:	14697971
Application Number:	14031685
Application Number:	14488648
Application Number:	14490804
Application Number:	14119919
Application Number:	14850002
Application Number:	13473755
Application Number:	14928650

CORRESPONDENCE DATA

Fax Number: (214)981-3400

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: 214-981-3483

Email: dclark@sidley.com

Correspondent Name: DUSAN CLARK, ESQ.

Address Line 1: SIDLEY AUSTIN LLP

Address Line 2: 2021 MCKINNEY AVE., SUITE 2000

Address Line 4: DALLAS, TEXAS 75201

ATTORNEY DOCKET NUMBER:	65241-30330
NAME OF SUBMITTER:	DUSAN CLARK
SIGNATURE:	/Dusan Clark/
DATE SIGNED:	05/16/2017

Total Attachments: 23

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SECOND LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

This SECOND LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT is entered into as of May 16, 2017, (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, this “Agreement”), by LTI Holdings, Inc., a Delaware corporation, Aavid Niagara, LLC, a New York limited liability company, Aavid Thermacore, Inc., a Pennsylvania corporation, Aavid Thermal Corp., a Delaware corporation, Aavid Thermalloy, LLC, a Delaware limited liability company, Lifetime Industries, Inc., a Minnesota corporation, LTI Flexible Products, INC., a Minnesota corporation and Nuventix, Inc., a Delaware corporation (each, a “Grantor”) in favor of Antares Capital LP, as administrative agent and as collateral agent (together with its successors in such capacities, the “Agent”) for the Secured Parties (as defined in the Credit Agreement referred to below).

Reference is made to that certain Second Lien Pledge and Security Agreement, dated as of May 16, 2017 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Security Agreement”), among the Grantors (for this purpose only, as defined therein) party thereto and the Agent, pursuant to which the Grantors have granted a security interest to the Agent in the IP Collateral (as defined below) and are required to execute and deliver this Agreement. The Lenders (as defined in the Credit Agreement referred to below) have extended credit to LTI Holdings, Inc., a Delaware corporation (the “Borrower”), subject to the terms and conditions set forth in that certain Second Lien Credit Agreement, dated as of May 16, 2017 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), by and among GSR Intermediate Holdco, Inc., a Delaware corporation, the Borrower, the Lenders (as defined therein) from time to time party thereto and the Agent. Consistent with the requirements set forth in Sections 4.01 and 5.12 of the Credit Agreement and Section 4.03(c) of the Security Agreement, the parties hereto agree as follows:

SECTION 1. *Terms.* Capitalized terms used in this Agreement and not otherwise defined herein have the meanings specified in the Security Agreement or the Credit Agreement, as applicable.

SECTION 2. *Grant of Security Interest.* As security for the prompt and complete payment or performance, as the case may be, in full of the Secured Obligations, each Grantor, pursuant to the Security Agreement, hereby grants to the Agent, its successors and permitted assigns, on behalf of and for the ratable benefit of the Secured Parties, a security interest in all of its right, title and interest in and to all of the following personal property, whether now owned by or owing to or hereafter acquired by or arising in favor of such Grantor (collectively, the “IP Collateral”; provided, however, that notwithstanding anything to the contrary in this Agreement, the IP Collateral shall not include any Excluded Asset):

- A. all Trademark registrations and applications for Trademark registration in the United States Patent and Trademark Office listed on Schedule I hereto, including all goodwill associated with or symbolized by the Trademarks;
- B. all issued Patents and pending Patent applications in the United States Patent and Trademark Office listed on Schedule II hereto;
- C. all Copyright registrations and pending applications for Copyright registration in the United States Copyright Office listed on Schedule III;
- D. the right to sue third parties for past, present and future infringements or dilutions of any IP Collateral; and
- E. all proceeds of the foregoing;

in each case to the extent the foregoing items constitute Collateral, it being expressly understood and agreed that the term "Collateral" (and any component definition thereof) shall not include any Excluded Asset. Notwithstanding anything to the contrary contained herein, immediately upon the ineffectiveness, lapse or termination of any restriction or condition set forth in the definition of "Excluded Assets" in the Credit Agreement, the Collateral shall include, and the relevant Grantor shall be deemed to have automatically granted a security interest in, all relevant previously restricted or conditioned rights, interests or other assets, as the case may be, to the extent the same no longer constitute Excluded Assets and would otherwise constitute Collateral.

SECTION 3. *Security Agreement.* The security interests granted to the Agent herein are granted in furtherance, and not in limitation of, the security interests granted to the Agent pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Agent with respect to the IP Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Security Agreement, the terms of the Security Agreement shall govern.

SECTION 4. *Governing Law.* This Agreement and any claim, controversy or dispute arising under or related to this Agreement, whether in tort, contract (at law or in equity) or otherwise, shall be governed by, and construed and interpreted in accordance with, the laws of the State of New York without regard to conflict of laws principles that would result in the application of any law other than the law of the State of New York.

SECTION 5. *Termination or Release.* (a) This Agreement shall continue in effect until the Termination Date, and the Liens granted by each relevant Grantor hereunder shall be automatically released and each relevant Grantor shall automatically be released from its obligations hereunder in the circumstances described in Article 8 and Section 9.22 of the Credit Agreement.

(b) In connection with any termination or release pursuant to paragraph (a) above, the Agent shall promptly execute (if applicable) and deliver to any Grantor, at such Grantor's expense, all UCC termination statements, security interest termination and release agreements for filing with the United States Patent and Trademark Office or United States Copyright Office, as applicable, and similar documents that such Grantor shall reasonably request to evidence and/or effectuate such termination or release. Any execution and delivery of documents pursuant to this Section 5 shall be without recourse to or representation or warranty by the Agent or any other Secured Party. The Borrower shall reimburse the Agent for all costs and expenses, including any fees and expenses of counsel, incurred by it in connection with any action contemplated by this Section 5 pursuant to and to the extent required by Section 9.03(a) of the Credit Agreement.

(c) The Agent shall have no liability whatsoever to any other Secured Party as the result of any release of Collateral by it in accordance with (or which the Agent in good faith believes to be in accordance with) the terms of this Section 5.

SECTION 6. *Counterparts.* This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or by email as a ".pdf" or ".tif" attachment shall be effective as delivery of a manually executed counterpart of this Agreement.


SECTION 7. INTERCREDITOR AGREEMENT GOVERNS. NOTWITHSTANDING ANYTHING HEREIN TO THE CONTRARY, THE LIENS AND SECURITY INTERESTS

GRANTED TO THE AGENT FOR THE BENEFIT OF THE SECURED PARTIES PURSUANT TO THIS AGREEMENT AND THE EXERCISE OF ANY RIGHT OR REMEDY BY THE AGENT AND THE OTHER SECURED PARTIES WITH RESPECT TO ANY COLLATERAL HEREUNDER ARE SUBJECT TO THE PROVISIONS OF THE INTERCREDITOR AGREEMENT AND EACH APPLICABLE ACCEPTABLE INTERCREDITOR AGREEMENT. IN THE EVENT OF ANY CONFLICT BETWEEN THE PROVISIONS OF THE INTERCREDITOR AGREEMENT (OR ANY APPLICABLE ACCEPTABLE INTERCREDITOR AGREEMENT) AND THIS AGREEMENT, THE PROVISIONS OF THE INTERCREDITOR AGREEMENT (OR SUCH ACCEPTABLE INTERCREDITOR AGREEMENT, AS APPLICABLE) SHALL GOVERN AND CONTROL.


[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

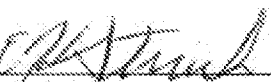
LTI HOLDINGS, INC., as a Grantor

By: 
Name: Eric Struik
Title: Senior Vice President,
Chief Financial Officer and Secretary

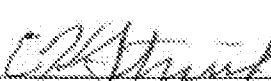
AAVID NIAGARA, LLC, as a Grantor

By: 
Name: Eric Struik
Title: Vice President, Chief Financial Officer,
Treasurer and Secretary


AAVID THERMACORE, INC., as a Grantor

By: 
Name: Eric Struik
Title: Vice President, Chief Financial Officer,
Treasurer and Secretary


AAVID THERMAL CORP., as a Grantor

By: 
Name: Eric Struik
Title: Vice President, Chief Financial Officer,
Treasurer and Secretary

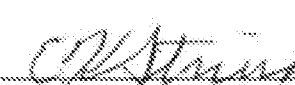
AAVID THERMALLOY, LLC, as a Grantor

By: 
Name: Eric Struik
Title: Vice President, Chief Financial Officer
and Treasurer

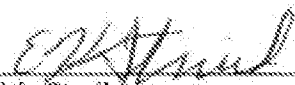
LIFETIME INDUSTRIES, INC., as a Grantor

By: 
Name: Eric Struik
Title: Senior Vice President,
Chief Financial Officer and Secretary

LTI FLEXIBLE PRODUCTS, INC., as a Grantor


By: 
Name: Eric Struik
Title: Senior Vice President,
Chief Financial Officer and Secretary

NUVENTIX, INC., as a Grantor

By: 
Name: Eric Struik
Title: President, Treasurer and Secretary

ACCEPTED AND AGREED
as of the date first above written.

ANTARES CAPITAL LP, as the Agent

By:  _____

Name: Kyle Wilson

Title: Duly Authorized Signatory

SCHEDULE I

U.S. TRADEMARK REGISTRATIONS AND APPLICATIONS FOR TRADEMARK REGISTRATION

	Title	Application Number	Application Date	Registration Number	Registration Date	Record Owner
1.	X'COND	79/109276	1/30/2012	4248081	11/27/2012	LTI Holdings, Inc.
2.	TRANSTHERM	74/306660	8/24/1992	1820621	2/8/1994	Lifetime Industries, Inc.
3.	SOLIMIDE	74/218654	11/4/1991	1736565	12/1/1992	LTI Flexible Products, INC.
4.	SOLIMIDE	73/195838	12/6/1978	1131330	2/26/1980	LTI Flexible Products, INC.
5.	SOLCOUSTIC	77/721650	4/24/2009	3711932 CANCELLED	11/17/2009	LTI Flexible Products, INC.
6.	BIG DADDY SEALING SYSTEMS	85/657767	6/21/2012	4572906	7/22/2014	LTI Flexible Products, INC.
7.	BIG DADDY SEALING SYSTEMS	85/979415	6/21/2012	4625805	10/21/2014	LTI Flexible Products, INC.

	Trademark	Application Number	Application Date	Registration Number	Registration Date	Owner
1.	SAPPHIRE TO SKY	87176703	20-SEP-2016			Aavid Thermalloy, LLC
2.	SILICON TO SKY	87059064	03-JUN-2016			Aavid Thermalloy, LLC
3.	S2S	87059095	03-JUN-2016			Aavid Thermalloy, LLC
4.	AAVID KUNZE	87056561	01-JUN-2016	5159407	14-MAR-2017	Aavid Thermalloy, LLC
5.	REVOLUTION	85163277	28-OCT-2010	4096930	07-FEB-2012	Aavid Niagra, LLC
6.	EVOLUTION	85163314	28-OCT-2010	4099958	14-FEB-2012	Aavid Niagra, LLC
7.	AAVID THERMALLOY	85120664	01-SEP-2010	3954657	03-MAY-2011	Aavid Thermalloy, LLC
8.	NUVENTIX	77068623	20-DEC-2006	3427629	13-MAY-2008	Nuventix, Inc. ¹
9.	SYNJET	78604993	08-APR-2005	3428167	13-MAY-2008	Nuventix, Inc. ²
10.	EASY-PLY	75227937	20-JAN-1997	2101701	30-SEP-1997	Aavid Thermalloy, LLC
11.	K TECHNOLOGY A DIVISION OF THERMACORE	86173630	23-JAN-2014	4631354	04-NOV-2014	Aavid Thermal Corp. ³
12.	BREAKING THERMAL BARRIERS	85747854	08-OCT-2012	4457494	31-DEC-2013	Aavid Thermal Corp.
13.	HX	77207052	15-JUN-2007	3491270	26-AUG-2008	Aavid Thermal Corp.
14.	K-CORE	78680480	28-JUL-2005	3191888	02-JAN-2007	Aavid Thermal Corp.
15.	THERMA-SINK	78462593	05-AUG-2004	3101946	06-JUN-2006	Aavid Thermal Corp.
16.	HXI	76319201	28-SEP-2001	2795530	16-DEC-2003	Aavid Thermal Corp.

¹ FN: USPTO records currently reflect "Nuventrix, Inc." as the owner of this trademark, which misspelling is likely a result of USPTO recordation error.

² FN: USPTO records currently reflect "Nuventrix, Inc." as the owner of this trademark, which misspelling is likely a result of USPTO recordation error.

³ FN: USPTO records currently reflect this entity's prior name (Thermal Corp.).

	Trademark	Application Number	Application Date	Registration Number	Registration Date	Owner
17.	HXC	76319202	28-SEP-2001	2722393	03-JUN-2003	Aavid Thermal Corp.
18.	THERMA-HINGE	78075194	23-JUL-2001	2708039	15-APR-2003	Aavid Thermal Corp.
19.	Design Only	76178712	11-DEC-2000	2590953	09-JUL-2002	Aavid Thermal Corp.
20.	THERMA-BUS	76147589	16-OCT-2000	2664151	17-DEC-2002	Aavid Thermal Corp.
21.	THERMA-CHARGE	76140142	02-OCT-2000	2605636	06-AUG-2002	Aavid Thermal Corp.
22.	THERMA-LOOP	76041562	05-MAY-2000	2447899	01-MAY-2001	Aavid Thermal Corp.
23.	THERMA-TOWER	75913094	03-FEB-2000	2450833	15-MAY-2001	Aavid Thermal Corp.
24.	THERMA-BASE	75640893	16-FEB-1999	2432762	06-MAR-2001	Aavid Thermal Corp.
25.	THERMACORE	73425797	13-MAY-1983	1317936	05-FEB-1985	Aavid Thermal Corp.

Signature Page to First Lien Intellectual Property Security Agreement

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PATENT
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SCHEDULE II

U.S. PATENTS AND PATENT APPLICATIONS

	Title	Application Number	Application Date	Patent (Publication) Number	Patent (Publication) Date	Record Owner
1.	TWO-PART SEAL FOR A SLIDE-OUT ROOM	10/712937	11/13/2003	6966590	11/22/2005	LIFETIME INDUSTRIES, INC.
2.	RESILIENT SEAL FOR MOBILE LIVING QUARTERS	11/466235	8/22/2006	7614676	11/10/2009	LIFETIME INDUSTRIES, INC.
3.	SEAL ASSEMBLY FOR MOBILE LIVING QUARTERS	11/621457	1/9/2007	7614677	11/10/2009	LIFETIME INDUSTRIES, INC.
4.	TRIM AND SEAL ASSEMBLIES FOR VEHICLE WITH SLIDE OUT ROOM AND METHOD OF MANUFACTURE	11/286703 Maintenance Fee is late and was due 12/3/2016	11/23/2005	7540116	6/2/2009	LIFETIME INDUSTRIES, INC.
5.	GAS ANTI DIFFUSION ASSEMBLIES	12/780430	5/14/2010	8377182 Patent expired on 2-19-2017 due to nonpayment of maintenance fees	2/19/2013	LIFETIME INDUSTRIES, INC.
6.	CORNER SEAL DEVICE	12/849411	8/3/2010	8382124	2/26/2013	LIFETIME INDUSTRIES, INC.
7.	OVERLAPPING COMPLEMENTARY BULB SEAL	13/306644	11/29/2011	8366168	2/5/2013	LIFETIME INDUSTRIES, INC.
8.	CORNER SEAL	13/298964	11/17/2011	8408625	4/2/2013	LIFETIME INDUSTRIES, INC.
9.	OVERLAPPING SEAL	29/429820	8/17/2012	D697640	1/14/2014	LIFETIME INDUSTRIES, INC.
10	ADJUSTABLE RESILIENT SEAL WITH BENDABLE BULB PORTIONS	14/160122	1/21/2014	9038322	5/26/2015	LIFETIME INDUSTRIES, INC.
11	TONNEAU COVER SEAL	13/189093	7/22/2011	8870190	10/28/2014	LIFETIME INDUSTRIES, INC.

Schedule II-1

	Title	Application Number	Application Date	Patent (Publication) Number	Patent (Publication) Date	Record Owner
12	SLIDE OUT SEAL	29/373309	3/29/2011	D648657	11/15/2011	LTI FLEXIBLE PRODUCTS, INC.
13	SLIDE OUT SEAL	29/373308	3/29/2011	D651146	12/27/2011	LTI FLEXIBLE PRODUCTS, INC.
14	SLIDE OUT SEAL	29/374256	7/19/2011	D669820	10/30/2012	LTI FLEXIBLE PRODUCTS, INC.
15	SEAMLESS, SELF-INSULATED FOAM DUCT AND AN APPARATUS AND METHOD FOR MANUFACTURING THE SAME	13/850115 ABANDONED -- Failure to respond to an Office Action	3/25/2013			LTI FLEXIBLE PRODUCTS, INC.
16	Locking seal	29/465675	8/30/2013	D741231	10/20/2015	LTI FLEXIBLE PRODUCTS, INC.
17	Hinged bulb seal	29/493278	6/6/2014	D741232	10/20/2015	LTI FLEXIBLE PRODUCTS, INC.
18	Hinged bulb seal	29/493279	6/6/2014	D747667	1/19/2016	LTI FLEXIBLE PRODUCTS, INC.
19	Slide out seal	29/493391	6/9/2014	D760135	6/28/2016	LTI FLEXIBLE PRODUCTS, INC.
20	Dual bulbous seal	29/503229	9/24/2014	D773342	12/6/2016	LTI FLEXIBLE PRODUCTS, INC.
21	Seal	29/510940	12/4/2014	D746745	1/5/2016	LTI FLEXIBLE PRODUCTS, INC.
22	Edge seal with sidewall seal	14/242002	4/1/2014	9033390	5/19/2015	LIFETIME INDUSTRIES, INC.
23	Slide out seal with box tunnel	14/672660	3/30/2015			LIFETIME INDUSTRIES, INC.

	Title	Application Number	Application Date	Patent (Publication) Number	Patent (Publication) Date	Record Owner
24	Floor covering transition	14/589135	1/5/2015	9068355	6/30/2015	LTI FLEXIBLE PRODUCTS, INC.
25	Illuminated seal base for mobile living quarters	14/594223	1/12/2015			LTI FLEXIBLE PRODUCTS, INC.
26	Cuttably replaceable slide-out seal	62/103606 Provisional application EXPIRED on 1/17/2016	1/15/2015			LTI FLEXIBLE PRODUCTS, INC.
27	Combination splash seal and wear bar	14/563146	12/8/2014	9505357	11/29/2016	LIFETIME INDUSTRIES, INC.
28	Combination splash seal and wear bar NEW	15/346911	11/9/2016			LTI Flexible Products, INC.
29	Cuttably replaceable slide-out seal NEW	14/996861	1/15/2016			LTI Flexible Products, INC.
30	Combination splash seal and wear bar NEW	14/959840	12/4/2015	9533629	1/3/2017	Lifetime Industries, INC.
31	Edge seal with sidewall seal NEW	14/672982	3/30/2015			Lifetime Industries, INC.
32	Conductive grounding pad NEW	13/186562 Maintenance fee is LATE and was due 1/10/2017	7/20/2011	8481867	7/9/2013	LTI Flexible Products, INC.

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
1	ADVANCED SYNJET COOLER DESIGN FOR LED LIGHT MODULES	US20090503832	15-Jul-2009	US8299691	30-Oct-2012	Nuventix, Inc.
2.	BRAZED WICK FOR A HEAT TRANSFER DEVICE	US20030607337	26-Jun-2003	US6994152	7-Feb-2006	Aavid Thermal Corp.
3.	CANTILEVER FAN	US20160149557	9-May-2016	(US2016252105)	(1-Sep-2016)	Aavid Thermalloy, LLC
4.	CANTILEVER FAN	US20110818513	19-Aug-2011	US9523367	20-Dec-2016	Aavid Thermalloy,

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PATENT
REEL: 042477 FRAME: 0659

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
						LLC
5.	CAPACITOR WITH HEAT PIPE COOLING	US20010775729	5-Feb-2001	US6430024	6-Aug-2002	Aavid Thermal Corp.
6.	Capillary assisted loop thermosiphon apparatus	US20040805142	19-Mar-2004	US7823629	2-Nov-2010	Aavid Thermal Corp.
7.	CAPILLARY ASSISTED LOOP THERMOSIPHON APPARATUS	US20100917090	1-Nov-2010	US8627879	14-Jan-2014	Aavid Thermal Corp.
8.	CAPILLARY DEVICE FOR USE IN HEAT PIPE AND METHOD OF MANUFACTURING SUCH CAPILLARY DEVICE	US20120119814	24-May-2012	(US2014190667)	(10-Jul-2014)	Aavid Thermal Corp.
9.	CHEMICALLY COMPATIBLE, LIGHTWEIGHT HEAT PIPE	US20030643435	19-Aug-2003	US7069978	4-Jul-2006	Aavid Thermal Corp.
10.	CHEMICALLY COMPATIBLE, LIGHTWEIGHT HEAT PIPE	US20060363806	28-Feb-2006	US7743502	29-Jun-2010	Aavid Thermal Corp.
11.	CHEMICALLY COMPATIBLE, LIGHTWEIGHT HEAT PIPE	US20100825733	29-Jun-2010	US8286694	16-Oct-2012	Aavid Thermal Corp.
12.	Cooling element for electrosurgery	US20050195454	2-Aug-2005	US7914529	29-Mar-2011	Aavid Thermal Corp.
13.	COOLING FRAME WITH INTEGRATED HEAT PIPES	US20130789751	8-Mar-2013	(US2014251577)	(11-Sep-2014)	Aavid Thermal Corp.
14.	Cooling system for computer electronics	US20050266812	5-Nov-2005	US7312995	25-Dec-2007	Aavid Thermal Corp.
15.	Cooling system for hinged portable computing device	US20020280726	25-Oct-2002	US6771498	3-Aug-2004	Aavid Thermal Corp.
16.	CORRUGATED FIN HEAT EXCHANGER AND METHOD OF MANUFACTURE	US20020185652	28-Jun-2002	US6688380	10-Feb-2004	Aavid Thermalloy, LLC
17.	CTE-MATCHED HEAT PIPE	US20110074987	29-Mar-2011	(US2011176276)	(21-Jul-2011)	Aavid Thermal Corp.
18.	CTE-MATCHED HEAT PIPE	US20030458168	10-Jun-2003	US6793009	21-Sep-2004	Aavid Thermal Corp.
19.	CTE-MATCHED HEAT PIPE	US20040924586	24-Aug-2004	US7048039	23-May-2006	Aavid Thermal Corp.
20.	ELECTRONICS CABINET AND RACK COOLING SYSTEM AND METHOD	US20130772606	21-Feb-2013	(US2013213075)	(22-Aug-2013)	Aavid Thermal Corp.
21.	ELECTRONICS PACKAGE WITH SPECIFIC AREAS HAVING LOW COEFFICIENT OF THERMAL EXPANSION	US20020081470	21-Feb-2002	US6566743	20-May-2003	Aavid Thermal Corp.

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
22.	EVAPORATOR AND CONDENSER SECTION STRUCTURE FOR THERMOSIPHON	US20150843210	2-Sep-2015	(US2016061532)	(3-Mar-2016)	Aavid Thermalloy, LLC
23.	FASTENER ASSEMBLY AND METHOD FOR HEAT SINK MOUNTING	US20140446506	30-Jul-2014	US9423191	23-Aug-2016	Aavid Thermalloy, LLC
24.	FLEXIBLE HEAT PIPE	US20000625301	25-Jul-2000	US6446706	10-Sep-2002	Aavid Thermal Corp.
25.	FLEXIBLE LOOP THERMOSYPHON	US20050210548	23-Aug-2005	US7096928	29-Aug-2006	Aavid Thermal Corp.
26.	FLUID CIRCUIT HEAT TRANSFER DEVICE FOR PLURAL HEAT SOURCES	US20030685954	15-Oct-2003	US7431071	7-Oct-2008	Aavid Thermal Corp.
27.	FLUID CIRCUIT HEAT TRANSFER DEVICE FOR PLURAL HEAT SOURCES	US20080247082	7-Oct-2008	US9273910	1-Mar-2016	Aavid Thermal Corp.
28.	FLUID COOLED SINGLE PHASE HEAT SINK	US19990357226	20-Jul-1999	US6131650	17-Oct-2000	Aavid Thermal Corp.
29.	FLUID-COOLED HEAT SINK FOR ELECTRONIC COMPONENTS	US20020121337	12-Apr-2002	US6661658	9-Dec-2003	Aavid Thermalloy, LLC
30.	FLUIDIC ENERGY TRANSFER DEVICES	US20070224783	7-Mar-2007	US8272851	25-Sep-2012	Aavid Thermalloy, LLC
31.	FORCED FLUID HEAT SINK	US20030739759	18-Dec-2003	US7017655	28-Mar-2006	Aavid Thermal Corp.
32.	FORCE-EQUALIZATION STATIONARY-COIL ACTUATOR FOR FLUID MOVERS	US20110877570	7-Oct-2011	(US2013230419)	(5-Sep-2013)	Aavid Thermalloy, LLC
33.	HEAT DISSIPATION UNIT WITH DIRECT CONTACT HEAT PIPE	US20030413601	14-Apr-2003	US6717813	6-Apr-2004	Aavid Thermal Corp.
34.	HEAT EXCHANGE APPARATUS	US20110702659	6-Jun-2011	(US2013081788)	(4-Apr-2013)	Aavid Thermal Corp.
35.	HEAT EXCHANGER BACKING PLATE AND METHOD OF ASSEMBLING SAME	US20130772622	21-Feb-2013	US9417015	16-Aug-2016	Aavid Thermal Corp.
36.	Heat pipe component deployed from a compact volume	US20040792198	3-Mar-2004	US7080681	25-Jul-2006	Aavid Thermal Corp.
37.	HEAT PIPE COOLING FOR TURBINE STATORS	US19970943626	3-Oct-1997	US5975841	2-Nov-1999	Aavid Thermal Corp.
38.	HEAT PIPE EVAPORATOR WITH POROUS VALVE	US20040930018	30-Aug-2004	US7013956	21-Mar-2006	Aavid Thermal Corp.
39.	Heat pipe for cautery	US20020305608	26-Nov-2002	US6905499	14-Jun-2005	Aavid Thermal

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PATENT
REEL: 042477 FRAME: 0661

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
	surgical Instrument					Corp.
40.	HEAT PIPE FOR CAUTERY SURGICAL INSTRUMENT	US20040970030	21-Oct-2004	US8100894	24-Jan-2012	Aavid Thermal Corp.
41.	Heat pipe for cautery surgical instrument	US20020305609	26-Nov-2002	US6800077	5-Oct-2004	Aavid Thermal Corp.
42.	HEAT PIPE HAVING A WICK WITH A HYBRID PROFILE	US20120654852	18-Oct-2012	(US2013092354)	(18-Apr-2013)	Aavid Thermal Corp.
43.	Heat pipe with axial and lateral flexibility	US20050256708	24-Oct-2005	US7647961	19-Jan-2010	Aavid Thermal Corp.
44.	HEAT PIPE WITH AXIAL AND LATERAL FLEXIBILITY	US20100689135	18-Jan-2010	US8230907	31-Jul-2012	Aavid Thermal Corp.
45.	HEAT SINK	US20070514176	1-Nov-2007	US8616267	31-Dec-2013	Aavid Thermalloy, LLC
46.	HEAT SINK AND ATTACHMENT PROCESS FOR ELECTRONIC COMPONENTS	US19970932815	16-Sep-1997	US5917700	29-Jun-1999	Aavid Thermalloy, LLC and Lucent Technologies Inc.
47.	HEAT SINK ASSEMBLY WITH FRAME CLIP FOR FULLY ASSEMBLED ATTACHMENT TO HEAT GENERATING COMPONENT	US20160083474	29-Mar-2016	(US2016211191)	(21-Jul-2016)	Aavid Thermalloy, LLC
48.	HEAT SINK BASE PLATE WITH HEAT PIPE	US20080148192	17-Apr-2008	US8286693	16-Oct-2012	Aavid Thermalloy, LLC
49.	HEAT SINK FOR DIRECT ATTACHMENT TO SURFACE MOUNT ELECTRONIC DEVICE PACKAGES	US19970955481	22-Oct-1997	US6097603	1-Aug-2000	Aavid Thermalloy, LLC
50.	HEAT SINK MOUNT AND ASSEMBLY	US20110014506	26-Jan-2011	US9401317	26-Jul-2016	Aavid Thermalloy, LLC
51.	HEAT SINK, IN PARTICULAR FOR ELECTRONIC COMPONENTS	US19980081623	19-May-1998	US5991151	23-Nov-1999	Aavid Thermalloy, LLC
52.	HEAT SPREADER WITH EXCESS SOLDER BASIN	US20000476813	3-Jan-2000	US6191946	20-Feb-2001	Aavid Thermal Corp.
53.	HEAT SPREADER WITH OSCILLATING FLOW	US20020073537	11-Feb-2002	US6631077	7-Oct-2003	Aavid Thermal Corp.
54.	HEAT TRANSFER APPARATUS AND METHOD	US20130828625	14-Mar-2013	US9417017	16-Aug-2016	Thermal Corp. and Regents of the University of Minnesota
55.	HYBRID LOOP HEAT PIPE	US20040987893	12-Nov-2004	US7111394	26-Sep-2006	Aavid Thermal Corp.
56.	INTEGRATED CIRCUIT HEAT PIPE	US19990310397	12-May-1999	US6302192	16-Oct-2001	Aavid Thermal Corp.

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PATENT
REEL: 042477 FRAME: 0662

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
	HEAT SPREADER WITH THROUGH MOUNTING HOLES					
57.	INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLES	US20040841784	7-May-2004	US6896039	24-May-2005	Aavid Thermalloy, LLC
58.	INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLES	US20050069260	1-Mar-2005	US7028760	18-Apr-2006	Aavid Thermal Corp.
59.	INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLES	US20010852322	9-May-2001	US7066240	27-Jun-2006	Aavid Thermal Corp.
60.	INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLES	US20030739709	18-Dec-2003	US7100679	5-Sep-2006	Aavid Thermalloy, LLC
61.	INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLES	US20050200349	9-Aug-2005	US7100680	5-Sep-2006	Aavid Thermalloy, LLC
62.	Integrated thermal architecture for thermal management of high power electronics	US20010909360	19-Jul-2001	US6388882	14-May-2002	Aavid Thermal Corp.
63.	LIGHT FIXTURE WITH MULTIPLE LEDS AND SYNTHETIC JET THERMAL MANAGEMENT SYSTEM	US20080288144	16-Oct-2008	US8066410	29-Nov-2011	Nuventix, Inc.
64.	LIGHT FIXTURE WITH MULTIPLE LEDS AND SYNTHETIC JET THERMAL MANAGEMENT SYSTEM	US20110251626	3-Oct-2011	US8845138	30-Sep-2014	Nuventix, Inc.
65.	LIQUID COOLED HEAT EXCHANGER WITH ENHANCED FLOW	US20000717860	21-Nov-2000	US6578626	17-Jun-2003	Aavid Thermal Corp.
66.	LIQUID COOLED HEAT EXCHANGER WITH ENHANCED FLOW	US20020199568	19-Jul-2002	US6719039	13-Apr-2004	Aavid Thermal Corp.
67.	LIQUID COOLED HEAT SINK WITH COLD PLATE RETENTION MECHANISM	US20050220456	7-Sep-2005	US7149087	12-Dec-2006	Aavid Thermal Corp.

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PATENT
REEL: 042477 FRAME: 0663

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
68.	METHOD AND APPARATUS FOR CONTROLLING DIAPHRAGM DISPLACEMENT IN SYNTHETIC JET ACTUATORS	US20080291337	6-Nov-2008	US8290724	16-Oct-2012	Nuventix, Inc.
69.	METHOD FOR FORMING SYNTHETIC JET ACTUATOR AND COMPONENTS THEREOF THROUGH INSERT MOLDING	US20140209283	13-Mar-2014	(US2014270325)	(18-Sep-2014)	Nuventix, Inc.
70.	METHOD OF MAKING ELECTRONICS PACKAGE WITH SPECIFIC AREAS HAVING LOW COEFFICIENT OF THERMAL EXPANSION	US20020219731	15-Aug-2002	US6579747	17-Jun-2003	Aavid Thermal Corp.
71.	METHODS FOR REDUCING THE NON-LINEAR BEHAVIOR OF ACTUATORS USED FOR SYNTHETIC JETS	US20070804898	21-May-2007	US8672648	18-Mar-2014	Nuventix, Inc.
72.	MODULAR COOLING SYSTEM AND THERMAL BUS FOR HIGH POWER ELECTRONICS CABINETS	US20010963899	26-Sep-2001	US6828675	7-Dec-2004	Aavid Thermal Corp.
73.	Modular heat sink	US20050159485	23-Jun-2005	US7306028	11-Dec-2007	Aavid Thermal Corp.
74.	MOLDABLE HOUSING DESIGN FOR SYNTHETIC JET EJECTOR	US20070825158	3-Jul-2007	US8646701	11-Feb-2014	Nuventix, Inc.
75.	MULTIPLE EVAPORATOR HEAT PIPE ASSISTED HEAT SINK	US20050100819	7-Apr-2005	US7059391	13-Jun-2006	Aavid Thermalloy, LLC
76.	PLANAR COIL AND SUPPORT FOR ACTUATOR OF FLUID MOVER	US20150697971	28-Apr-2015	(US2015316046)	(5-Nov-2015)	Aavid Thermalloy, LLC
77.	POROUS MEDIA COLD PLATE	US20040970404	20-Oct-2004	US7044199	16-May-2006	Aavid Thermal Corp.
78.	POROUS MEDIA COLD PLATE	US20060381439	3-May-2006	US7690419	6-Apr-2010	Aavid Thermal Corp.
79.	POROUS MEDIA COLD PLATE	US20100752910	1-Apr-2010	US8397796	19-Mar-2013	Aavid Thermal Corp.
80.	Porous vapor valve for improved loop thermosiphon	US20010885472	20-Jun-2001	US6615912	9-Sep-2003	Aavid Thermal Corp.

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PATENT
REEL: 042477 FRAME: 0664

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
	performance					
81.	REINFORCED HEAT-TRANSFER DEVICE, HEAT-TRANSFER SYSTEM, AND METHOD OF REINFORCING A HEAT-TRANSFER DEVICE	US20130031685	19-Sep-2013	(US2014076517)	(20-Mar-2014)	Aavid Thermal Corp.
82.	SEMICONDUCTOR PACKAGE WITH INTERNAL HEAT SPREADER	US20010753893	3-Jan-2001	US6437437	20-Aug-2002	Aavid Thermal Corp.
83.	SEMICONDUCTOR PACKAGE WITH LID HEAT SPREADER	US20010774475	30-Jan-2001	US6525420	25-Feb-2003	Aavid Thermal Corp.
84.	SEMICONDUCTOR PACKAGE WITH LID HEAT SPREADER	US20020241947	12-Sep-2002	US6858929	22-Feb-2005	Aavid Thermal Corp.
85.	SEMICONDUCTOR PACKAGE WITH LID HEAT SPREADER	US20040999261	30-Nov-2004	US7005738	28-Feb-2006	Aavid Thermal Corp.
86.	SINTERED GROOVED WICK WITH PARTICLE WEB	US20030422878	24-Apr-2003	US6945317	20-Sep-2005	Aavid Thermal Corp.
87.	SPLIT FLUIDIC DIAPHRAGM	US20140488648	17-Sep-2014	(US2015078934)	(19-Mar-2015)	Aavid Thermalloy, LLC
88.	SYNTHETIC JET ACTUATOR EQUIPPED WITH ENTRAINMENT FEATURES	US20140195162	3-Mar-2014	US9184109	10-Nov-2015	Nuventix, Inc.
89.	SYNTHETIC JET COOLING SYSTEM FOR LED MODULE	US20050265778	2-Nov-2005	US7932535	26-Apr-2011	Nuventix, Inc.
90.	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	US20110026220	12-Feb-2011	US8772987	8-Jul-2014	Nuventix, Inc.
91.	SYNTHETIC JET EJECTOR AND DESIGN THEREOF TO FACILITATE MASS PRODUCTION	US20140291729	30-May-2014	US9452463	27-Sep-2016	Nuventix, Inc.
92.	SYNTHETIC JET EJECTOR FOR THE THERMAL MANAGEMENT OF PCI CARDS	US20060601608	17-Nov-2006	US8430644	30-Apr-2013	Nuventix, Inc.
93.	Synthetic jet ejector with viewing window and temporal aliasing	US20080156846	4-Jun-2008	US7768779	3-Aug-2010	Nuventix, Inc.
94.	SYNTHETIC JET EJECTORS WITH IMPROVED MANUFACTURABILITY	US20140490804	19-Sep-2014	(US2015030477)	(29-Jan-2015)	Nuventix, Inc.

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
95.	SYNTHETIC JET HEAT PIPE THERMAL MANAGEMENT SYSTEM	US20060599628	13-Nov-2006	US7607470	27-Oct-2009	Nuventix, Inc.
96.	SYSTEM AND METHOD FOR COOLING HEAT GENERATING COMPONENTS	US20130826450	14-Mar-2013	US9042100	26-May-2015	Aavid Thermalloy, LLC
97.	Thermal bus for cabinets housing high power electronics equipment	US20010902088	10-Jul-2001	US6536510	25-Mar-2003	Aavid Thermal Corp.
98.	THERMAL BUS FOR ELECTRONICS SYSTEMS	US20030628645	28-Jul-2003	US6804117	12-Oct-2004	Aavid Thermal Corp.
99.	THERMAL MANAGEMENT OF LED-BASED ILLUMINATION DEVICES WITH SYNTHETIC JET EJECTORS	US20120470523	14-May-2012	US8777456	15-Jul-2014	Nuventix, Inc.
100.	THERMAL MANAGEMENT OF LED-BASED ILLUMINATION DEVICES WITH SYNTHETIC JET EJECTORS	US20130969976	19-Aug-2013	US9016903	28-Apr-2015	Nuventix, Inc.
101.	THERMAL MANAGEMENT OF VERY SMALL FORM FACTOR PROJECTORS WITH SYNTHETIC JETS	US20130753861	30-Jan-2013	US8770765	8-Jul-2014	Nuventix, Inc.
102.	Thermal management system and method for electronics system	US20020180166	26-Jun-2002	US6657121	2-Dec-2003	Aavid Thermal Corp.
103.	Thermal management system and method for electronics system	US20030658828	9-Sep-2003	US6972365	6-Dec-2005	Aavid Thermal Corp.
104.	Thermal management system and method for electronics system	US20050218747	2-Sep-2005	US7071408	4-Jul-2006	Aavid Thermal Corp.
105.	Thermal management system for card cages	US20090465645	14-May-2009	US7760499	20-Jul-2010	Nuventix, Inc.
106.	THERMAL MANAGEMENT SYSTEM FOR DISTRIBUTED HEAT SOURCES	US20060599603	13-Nov-2006	US7606029	20-Oct-2009	Nuventix, Inc.
107.	THERMAL MANAGEMENT SYSTEM FOR LED ARRAY	US20070005159	22-Dec-2007	US7784972	31-Aug-2010	Nuventix, Inc.
108.	THERMAL MANAGEMENT	US20080072610	26-Feb-2008	US7819556	26-Oct-2010	Nuventix, Inc.

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PATENT
REEL: 042477 FRAME: 0666

	Patent	Application Number	Application Date	Patent Number	Patent Date	Owner
	SYSTEM FOR LED ARRAY					
109.	THERMAL TRANSFER DEVICE WITH REDUCED VERTICAL PROFILE	US20110119919	27-May-2011	(US2014345829)	(27-Nov-2014)	Aavid Thermalloy, LLC
110.	THERMAL TRANSFER DEVICE WITH SPIRAL FLUID PATHWAYS	US20110003511	7-Mar-2011	US9568257	14-Feb-2017	Aavid Thermalloy, LLC
111.	THERMOSIPHON WITH BENT TUBE SECTION	US20150850002	10-Sep-2015	(US2016076819)	(17-Mar-2016)	Aavid Thermalloy, LLC
112.	VARIABLE-CONDUCTANCE HEAT TRANSFER DEVICE	US20120473755	17-May-2012	(US2013299136)	(14-Nov-2013)	Aavid Thermal Corp.
113.	VEHICLE THERMAL MANAGEMENT SYSTEM	US20150928650	30-Oct-2015	(US2016128227)	(5-May-2016)	Aavid Thermal Corp.
114.	VIBRATION ISOLATION SYSTEM FOR SYNTHETIC JET DEVICES	US20070821582	22-Jun-2007	US8136576	20-Mar-2012	Nuventix, Inc.

SCHEDULE III

U.S. COPYRIGHT REGISTRATIONS AND APPLICATIONS FOR COPYRIGHT REGISTRATION

	COPYRIGHT TITLE	REG NUMBER	DATE OF REG	OWNER
1.	6085 series D I P package bond on extrusions: new product bulletin [no.] 77-6085/DS-10.	TX365594	7/23/1979	Aavid Thermalloy, LLC
2.	Mica insulators: new product bulletin [no.] 77-MICA/DS-11.	TX365595	7/23/1979	Aavid Thermalloy, LLC
3.	6109, 6110 timesaver solderable heat sinks for TO-220 cases: new product bulletin [no.] 79-6109/DS-1.	TX365596	7/23/1979	Aavid Thermalloy, LLC
4.	6024 series TO-92 clip-on heat sink: new product bulletin [no.] 77-CHS/DS-2.	TX365597	7/23/1979	Aavid Thermalloy, LLC
5.	6200 series TO-5 clip-on heat sinks: new product bulletin [no.] 77-6200/DS-12.	TX365598	7/23/1979	Aavid Thermalloy, LLC
6.	6075 series universal heat sinks: new product bulletin [no.] 78-6075/DS-2.	TX365599	7/23/1979	Aavid Thermalloy, LLC
7.	8909NB insulating TO-3 cover: new product bulletin [no.] 78-8909/DS-2.	TX365600	7/23/1979	Aavid Thermalloy, LLC
8.	6098 series solderable pin heat sink: new product bulletin [no.] 78-6098/DS-6.	TX365601	7/23/1979	Aavid Thermalloy, LLC
9.	New insulator shapes: new product bulletin [no.] 78-INS/DS-2.	TX365602	7/23/1979	Aavid Thermalloy, LLC
10.	6108 series timesaver solderable heat sinks for TO-3 cases: new product bulletin [no.] 78-6108/DS-7.	TX365603	7/23/1979	Aavid Thermalloy, LLC
11.	Thermalloy plastic products: P C card guides, P C card pullers & ejectors, component mounts, semiconductor insulating covers, shoulder washers: [no.] 78-PB-8.	TX365604	7/23/1979	Aavid Thermalloy, LLC
12.	Insul-Cote pre-coated insulator and automated dispenser: save up to 8,000 dollars per year with Insul-Cote automated insulator application: new product bulletin [no.] 77-INS/DS-1.	TX365605	7/23/1979	Aavid Thermalloy, LLC
13.	9644 series mounting clamp: new product bulletin [no.] 77-CLP/DS-1.	TX365606	7/23/1979	Aavid Thermalloy, LLC
14.	6021/6022 series low cost solderable heat sinks for plastic power: new product bulletin [no.] 79-6021/DS-2.	TX365607	7/23/1979	Aavid Thermalloy, LLC
15.	6041/6042 clip-on heat sinks: new product bulletin [no.] 76-CHS/DS-10.	TX365608	7/23/1979	Aavid Thermalloy, LLC
16.	2270 series press-fit gear heat sinks: new product bulletin [no.] 76-GHS/DS-10.	TX365609	7/23/1979	Aavid Thermalloy, LLC
17.	Interface thermal resistance data: technical bulletin: [no.] TB-1.	TX365610	7/23/1979	Aavid Thermalloy, LLC
18.	4880 mounting kit for TO-220 plastic power: new product bulletin [no.] 77-MK/DS-1.	TX365611	7/23/1979	Aavid Thermalloy, LLC
19.	Semiconductor accessories: [no.] 77-HS-10.	TX370603	7/23/1979	Aavid Thermalloy, LLC
20.	Semiconductor accessories catalog: [no.] 77-IHS-9.	TX370604	7/23/1979	Aavid Thermalloy, LLC
21.	Semiconductor mounting pads: catalog.	TX372644	7/23/1979	Aavid Thermalloy, LLC
22.	Insulators & mounting kits for semiconductor devices: catalog.	TX372645	7/23/1979	Aavid Thermalloy, LLC
23.	Semiconductor accessories.	TX372646	7/23/1979	Aavid Thermalloy, LLC
24.	Semiconductor accessories.	TX372647	7/23/1979	Aavid Thermalloy, LLC
25.	Semiconductor mounting pads: catalog.	TX372648	7/23/1979	Aavid Thermalloy, LLC
26.	Semiconductor accessories catalog.	TX372649	7/23/1979	Aavid Thermalloy, LLC

	COPYRIGHT TITLE	REG. NUMBER	DATE OF REG.	OWNER
27.	Heat sinks.	TX372650	7/23/1979	Aavid Thermalloy, LLC
28.	Semiconductor accessories.	TX372651	7/23/1979	Aavid Thermalloy, LLC
29.	Semiconductor accessories short form catalog: 78-SF-8.	TX393668	7/23/1979	Aavid Thermalloy, LLC
30.	5020 snap-on timesaver card ejector for .062" P C boards: new product bull. 79-5020/DS-9.	TX337025	9/28/1979	Aavid Thermalloy, LLC
31.	Insul-cote pre-coated insulator and automated dispenser: new product bulletin 80-INS/DS-1.	TX432214	2/25/1980	Aavid Thermalloy, LLC
32.	Semiconductor accessories.	TX525452	8/1/1980	Aavid Thermalloy, LLC
33.	6351 series high performance heat sinks for TO-3 cases: new product bull. 79-6351/DS-12.	TX524518	8/8/1980	Aavid Thermalloy, LLC
34.	Forced convection thermal performance.	TX524519	8/8/1980	Aavid Thermalloy, LLC
35.	2280/2286 series heat sink for leadless chip carriers and flat paks: preliminary data sheet.	TX524520	8/8/1980	Aavid Thermalloy, LLC
36.	Thermalloy solderable studs design guidelines for packaging under static and dynamic loadings: engineering information release no. 80-1004 / prepared by Charles L. Hudson.	TX524521	8/8/1980	Aavid Thermalloy, LLC
37.	6044 dual TO-220 clip-on heat sink: new product bull. 80-6044-DS-1.	TX524522	8/8/1980	Aavid Thermalloy, LLC
38.	Thermalsil silicon rubber insulators: preliminary data sheet 80-TSIL/DS-1.	TX524523	8/8/1980	Aavid Thermalloy, LLC
39.	Semiconductor accessories catalog.	TX538595	9/2/1980	Aavid Thermalloy, LLC
40.	Stay on top of the new technology, Solderable Stud heat sinks: 80-SS/DS-1.	TX569118	10/20/1980	Aavid Thermalloy, LLC
41.	6208B "top" for TO-3: new product bull. 80-6208B/DS-1.	TX583620	11/17/1980	Aavid Thermalloy, LLC
42.	Thermalcote II synthetic base thermal grease: new product bull. 80-TII/DS-1.	TX583621	11/17/1980	Aavid Thermalloy, LLC
43.	6074B MT wave solderable multiple mount TO-220 heat sink: new product bull. 81-6074/DS-1.	TX746172	8/10/1981	Aavid Thermalloy, LLC
44.	Extruded heat sink profiles: [catalog]	TX746173	8/10/1981	Aavid Thermalloy, LLC
45.	Semiconductor accessories.	TX884229	4/5/1982	Aavid Thermalloy, LLC
46.	Three ways to kill time.	TX928162	6/24/1982	Aavid Thermalloy, LLC
47.	Semiconductor accessories.	TX1205810	10/11/1983	Aavid Thermalloy, LLC
48.	New ways to kill time.	TX1205811	10/11/1983	Aavid Thermalloy, LLC
49.	Extruded heat sink profiles.	TX1380717	7/2/1984	Aavid Thermalloy, LLC
50.	Semiconductor accessories.	TX1380718	7/2/1984	Aavid Thermalloy, LLC
51.	Alignment pads for heat sink assembly.	TX2069904	4/27/1987	Aavid Thermalloy, LLC
52.	New products from Thermalloy.	TX2069905	4/27/1987	Aavid Thermalloy, LLC
53.	Semiconductor accessories.	TX2069906	4/27/1987	Aavid Thermalloy, LLC
54.	New Thermalsil.	TX2067188	5/5/1987	Aavid Thermalloy, LLC
55.	6214, 6216 high performance TO-3 heat sinks for limited PC board space.	TX2068485	5/5/1987	Aavid Thermalloy, LLC
56.	6380 series cools single and zig-zag in-line packages 87-DS/6380-7.	TX2227844	1/5/1988	Aavid Thermalloy, LLC
57.	Newest innovation from Thermalloy could cut your heat sink assembly time in half: 87-AP/DS-10.	TX2227845	1/5/1988	Aavid Thermalloy, LLC
58.	6222 series bridge rectifier heat sinks 87-DS/6222-7.	TX2227846	1/5/1988	Aavid Thermalloy, LLC

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59.	Silicon rubber performance compared to various interface materials.	TX2423347	1/5/1988	Aavid Thermalloy, LLC
60.	New Thermasil thermally conductive, silicone rubber insulators.	TX2423348	1/5/1988	Aavid Thermalloy, LLC
61.	Heat sinks for ECL and CMOS, ASIC's, gate arrays, microprocessors in PGA and LCC packages: new product catalog: 88-DS/GA-5.	TX2372993	7/6/1988	Aavid Thermalloy, LLC
62.	Heat sink for Intel 80486 and 80860: new product bulletin.	TX2716702	12/26/1989	Aavid Thermalloy, LLC
63.	High performance aluminum nitride insulators.	TX3241789	2/11/1991	Aavid Thermalloy, LLC
64.	Heat sinks for ECL and CMOS ASICs, gate arrays, microprocessors in PGA packages and the PGA E-Z Mount assembly method.	TX3241788	2/11/1992	Aavid Thermalloy, LLC
65.	Thermalloy cooling modules.	TX3241790	2/11/1992	Aavid Thermalloy, LLC
66.	Semiconductor accessories.	TX3241791	2/11/1992	Aavid Thermalloy, LLC
67.	[Thermalfilm MT : TMT-DS4-9208]	TX3444343	11/19/1992	Aavid Thermalloy, LLC
68.	Heat sinks for board mounted power modules.	TX3444344	11/19/1992	Aavid Thermalloy, LLC
69.	New heat sink spring clips for use with AMP low insertion force PGA sockets SCA1-DS8-9304.	TX3738991	11/16/1993	Aavid Thermalloy, LLC
70.	Pentium processor, thermal management solutions from Thermalloy PNTMI-DS6-9304.	TX3738992	11/16/1993	Aavid Thermalloy, LLC
71.	Thermalloy THM1-DS7-9304.	TX3738993	11/16/1993	Aavid Thermalloy, LLC
72.	Thermalloy cooling modules TCM2-DS3-9206.	TX3738994	11/16/1993	Aavid Thermalloy, LLC
73.	Secondary heat sink clips CLP1-DS9-9304.	TX3738995	11/16/1993	Aavid Thermalloy, LLC
74.	Heat sinks.	CSN0021190	1976	Aavid Thermalloy, LLC
75.	Heat sinks.	CSN0021190	1979	Aavid Thermalloy, LLC
76.	Insulators & mounting kits for semiconductor devices: catalog.	CSN0021384	1976	Aavid Thermalloy, LLC
77.	Insulators & mounting kits for semiconductor devices: catalog.	CSN0021384	1979	Aavid Thermalloy, LLC
78.	Semiconductor accessories.	CSN0022983	1977	Aavid Thermalloy, LLC
79.	Semiconductor accessories.	CSN0022983	1978	Aavid Thermalloy, LLC
80.	Semiconductor accessories.	CSN0022983	1979	Aavid Thermalloy, LLC
81.	Semiconductor accessories.	CSN0022983	1980	Aavid Thermalloy, LLC
82.	Semiconductor accessories catalog.	CSN0022984	1978	Aavid Thermalloy, LLC
83.	Semiconductor accessories catalog.	CSN0022984	1979	Aavid Thermalloy, LLC
84.	Semiconductor accessories catalog.	CSN0022984	1980	Aavid Thermalloy, LLC
85.	Semiconductor mounting pads: catalog.	CSN0022985	1977	Aavid Thermalloy, LLC
86.	Semiconductor mounting pads: catalog.	CSN0022985	1978	Aavid Thermalloy, LLC
87.	Semiconductor mounting pads: catalog.	CSN0022985	1979	Aavid Thermalloy, LLC
88.	Assembled tenth segment heat pipe with integral calorimeter	VA0001315580	7/28/2005	Aavid Thermacore, Inc. ⁴
89.	Completed assembly of the 1/10th segment life test heat pipe.	VA0001315579	7/28/2005	Aavid Thermacore, Inc.
90.	Tenth segment heat pipe with top plate removed to show wick structure	VA0001315581	7/28/2005	Aavid Thermacore, Inc.
91.	Pulsating heat pipe video clips	PA0001283978	7/28/2005	Aavid Thermacore, Inc.
92.	Proposed solution--integrated thermal architecture	VA0001094698	4/17/2001	Aavid Thermal Corporation
93.	Pressure relief device life test assembly	VA0001315577	7/28/2005	Aavid Thermacore, Inc.

⁴ FN: USCO records currently reflect this entity's prior name (Thermacore, Inc.).

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94.	Bench-top life test heat pipe	VA0001315578	7/28/2005	Aavid Thermacore, Inc.

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RECORDED: 05/16/2017

**PATENT
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