Form PTO 1595 (Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket 4136-0 101588880 ....ginal documents or copy thereof. To the Honorable Commissioner of Patents 2. Name and address of receiving party(ies): Name of conveying party(ies): Thermalloy, Inc. Name: Aavid Thermalloy, LLC NOV 0 6 2000 Internal Address: MW. W Street Address: One Eagle Square & TRADEMA City: Concord, New Hampshire State/Country: USA Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No Zip: 03301 3. Nature of conveyance: Additional name(s) & address(es) attached? [] Yes [x] No [x] Assignment [] Merger Security Agreement Change of Name [] Other Execution Date: October 25, 2000 4. Application number(s) or patent number(s): SEE ATTACHED SHEETS If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) SN.: Additional numbers attached? [x] Yes [] No 6. Total number of applications and 5. Name and address of party to whom correspondence patents involved: concerning document should be mailed: 59 Name: Martin B. Pavane Internal Address: Cohen, Pontani, Lieberman & Pavane Enclosed Authorized to be charged to deposit account Street Address: 551 Fifth Avenue, 12th Floor 8. Deposit account number: 03-2412 (Attach duplicate copy of this page if paying by deposit account) City: New York State: New York Zip: 10176 00000001 09151927 /k0/2000 ATHATT DO NOT USE THIS SPACE 2360.00 0P to:581 To the best of my knowledge and belief, the foregoing from attached copy is a Statement and signature. true copy of the original document. November 1, 2000 Martin B. Pavane Name of Person Signing Date Signature Reg. No. 28,337 Total number of pages including cover sheet, attachments, and document: 14

Mail documents to be recorded with required cover sheet information to: **Assistant Commissioner for Patents** Washington, D.C. 20231

### **APPLICATIONS**

SERIAL NUMBER	<u>FILING DATE</u>
09/151,927	9/11/98
09/490,752	1/26/00
09/099,486	6/17/98
09/332,615	6/14/99
08/669,875	6/21/96
08/877,944	6/18/97
09/169,055	10/9/98

### **PATENTS**

### **PATENT NUMBER**

4,884,331

4,879,891

5,486,980

6,082,440

5,386,338

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5,930,114

4,884,331

4,879,891

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4,806,064

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5,889,653

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Re. 35,573

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### PATENT NUMBER

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5,068,764

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D312,819

D295,281

D295,282

D284,851

D300,738

D285,193

D357,227

4,609,040

4,625,260

4,388,967

4,403,102

4,521,827

5,847,928

6,059,116

5,897,917

5,590,025

5,677,829

5,991,154

5,844,312

5,640,305

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PATENT ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration,

the receipt of which is hereby acknowledged, Thermalloy, Inc. ("ASSIGNOR"), through its

undersigned officer,

Hereby sells, assigns and transfers to Aavid Thermalloy, LLC ("ASSIGNEE"), a

limited liability company of the State of Delaware, having a place of business at One Eagle

Square, Concord, New Hampshire 03301, its successors, assigns and legal representatives, its

entire right, title and interest in and to the applications for United States Letters Patent identified

in Exhibit A hereto (the "Applications"), and the issued United States Letters Patent identified in

Exhibit B hereto (the "Patents"); and to any and all inventions disclosed in the Applications and

Patents, and including all divisional, continuing, substitute, renewal, reissue, reexamination and

all other applications for Letters Patent which have been or shall be filed in the United States and

all foreign countries on any of said inventions disclosed is the Applications and/or the Patents; and

in and to all original, reissued and reexamined patents which have been or shall be issued in the

United States and all foreign countries for such inventions; and including the right to sue for

infringement of any such patent and to recover damages for the past, present or future

infringement thereof;

Agrees that Assignee may apply for and receive Letters Patent for said inventions

in its own name; that, when requested, without charge to but at the expense of Assignee, its

successors, assigns and legal representatives, to carry out in good faith the intent and purpose of

this assignment, Assignor will execute or cause to be executed all divisional, continuing,

substitute, renewal, reissue, reexamination and all other patent applications concerning said

Applications and Patents and the inventions disclosed therein; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to Assignee, its successors, assigns, and legal representatives, all facts known to the Assignor relating to said Applications and Patents and the inventions disclosed therein and the history thereof; and generally do everything possible which Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said Applications and Patents and the inventions disclosed therein and for vesting title to said Applications, Patents and inventions in said Assignee, its successors, assigns and legal representatives; and

Covenants with Assignee, its successors, assigns and legal representatives that Assignor has not assigned, granted, mortgaged, licensed or entered into any other agreement with any third party affecting the rights, title and interest conveyed herein, and that Assignor has the full right to make the conveyance expressed herein.

Date: 10/25/00	Muthell
Month/Day/Year	John Mitchell
State of New Dinipshere	)
State of New Vinipaline County of Merrimanh	)ss. )
o d 4 of day of	2000, before me personally came
John Mitchell, to me known, who, ber	ing by me duly sworn, did depose and say that he resides and
71 . 1 . 7 . 1 1 4 4	
that he is the Vice President, Treasurer	r & Secretary of Thermalloy, Inc., the corporation pregoing instrument; and that he signed his name thereto by
described in and which executed the lo	regoing mod different
authorization of said corporation.	

S. DIANE KNAEFLER NOTARY PUBLIC STATE OF NEW HAMPSHIRE My commission expires Nov. 6, 2002 A hlune Kruft
Notary Public

-2-

### 1 of 1

# **EXHIBIT A - "APPLICATIONS"**

4136-191DIV	4136-191CIP	4136-191	4136-190DIV	4136-190CON	4136-171	4136-149CIP	4136-139CPA	FILE#
5/8/00	5/9/00	5/9/00	5/9/00	5/9/00	5/8/00	4/28/00	04/04/00 assumed file 4/3/00	DATE
09/169,055	08/877,944	08/669,875	09/332,615	09/099,486	09/490,752	09/151,927	08/792,864	SERIAL NO.
10/9/98	6/18/97	6/21/96	6/14/99	6/17/98	1/26/00	9/11/98	01/31/97	FILING DATE
U.S. Patent Application For: Applicator Head and Method for Using the Same	U.S. Patent Application For: Applicator Head	U.S. Patent Application For: Pre-Application of Grease to Heat Sinks with a Protective Coating Former Atty Ref No. THRM-0026US	U.S. Patent Application For: Strap Spring for Attaching Heat Sinks to Circuit Boards	U.S. Patent Application For: Strap Spring for Attaching Heat Sinks to Circuit Boards	U.S. Patent Application For: Mounting Assembly And Retention Bracket Thermally coupling Heat Sink And Edge-Connected Heat Generating Device Package Based on U.S. Provisional Application No.: 60/117,438, filed 1/26/99	U.S. Patent Application For: Heat Sink Assembly Former Atty No.: 88721-64495	U.S. Patent Application Heat Dissipating Assembly Former Atty Ref. No. 88721-64288	AAVID THERMALLOX TRANSFER TABLE NO. FILING TITLE DATE
		S						ISSUE DATE
								PATENT NO.
Inc.	Inc.	Inc.	Inc. Inc. Thermallov.	Inc.	Thermalloy, Inc.	Inc.	Thermalloy, Inc.	ASSIGNEE STATUS

		5,930,114 Inc.		5,386,338 Inc.	-	6,082,440 Inc.	5,980 Thermalloy, Inc.		,331 Inermanoy, Inc.		
		5,9	5,42	5,38		6,08,	5,486,980	4,879,891	4,884,331	PATENT NO.	
		7/27/99	07/04/95	01/31/95		07/04/00	1/23/96	11/14/89	12/05/89	ISSUE DATE	
Packages Former Atty Ref: 88721/60121	For: Heat Sink Mounting Assembly For Surface Mount Electronic Device	U.S. Patent Application	U.S. Patent Application For: Heat Sink Attachment Assembly Former Atty Ref: 88721-62944	U.S. Patent Application For: Heat Sink Attachment Assembly Former Atty Ref: 88721-62943	Releasable Attachment Assembly Based on Provisional 60/038,035) (Former Atty Ref. No. 88721-60119)	U.S. Patent Application For: Heat Dissipation System Having	U.S. Patent Application For: For: Method and Apparatus for Dissipating Thermal Energy Former Atty Ref: 88721-62948	U.S. Patent Application For: Method Of Manufacturing Heat Sink Apparatus Former Atty Ref: 88721-62956	U.S. Patent Application For: Method Of Manufacturing Heat Sink Apparatus	TITLE	AAVID THERMALLOY TRANSFER TABLE
		10/23/97	09/29/94	12/20/93		02/06/98		06/05/89	10/26/88	FILING DATE	D THERN
		08/955,650	08/314,673	08/169,354		09/019,546		07/361,484	07/262,695	SERIAL NO.	AAVI
		5/03/00	04/05/00 assumed file 4/24/00	04/05/00 assumed file 4/24/00	4/3/00	04/04/00 assumed file	4/24/00 assumed file 4/24/00	12/02/99	04/29/00	DATE OPENED	
		4136-142	4136-141DIV	4136-141		4136-140	4136-135CIP	4136-130 C/DIV	4136-130CON	FILE#	

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4136-150CON	4136-150CIP	4136-149		4136-148D/CON	4136-148DIV2	4136-148	4136-145 CON	FILE #	
5/9/00	4/25/00	04/24/00		4/25/00	4/25/00	04/24/00	04/19/00	DATE OPENED	
08/643,079	08/223,011	08/955,481		07/162,150	07/126,822	06/644,215	08/544,060	SERIAL NO.	AAVI
5/2/96	4/5/94	10/22/97		2/29/88	11/30/87	8/24/84	10/10/95	FILING	D THER
U.S. Patent Application For: Strap Spring For Heat Sink Clip Assembly	U.S. Continuation-In-Part Application For: Spring Clamp Assembly With Electrically Insulating Shoe Former Atty Ref: 88721-62925	U.S. Patent Application For: Heat Sink for Direct Attachment to Surface Mount Electronic Device Packages Former Atty Ref: 88721-60423	Divisional For: Compensating Roll Pin For Heat Sink Mounting Former Atty Ref: 88721-62974	U.S. Continuation Application based on a	U.S. Divisional Application For: Method of Mounting Heat Sinks Former Atty Ref: 88721-62975	U.S. Patent Application For: Compensating Roll Pin For Heat Sink Mounting Former Atty Ref: 88721-62973	U.S. Patent Application For: Stamped and Formed Heat Sink (Data entered from face of CON Patent CopyCPLP DOES NOT HAVE THE FILE AS OF 04/19/00	TITLE	AAVID THERMALLOY TRANSFER TABLE
1/14/97	12/6/94	8/1/00		2/21/89	11/15/88	7/22/86	10/22/96	DATE	
5,594,624	5,371,652	6,097,603		4,806,064	4,783,899	4,602,315	5,566,749	1	
Thermalioy, Inc.	Inc.	Inc.	Thomasilov	Thermalloy, Inc.	Inc.	inc.	Inc.	STATUS	ASSIGNEE

4136-159	4136-158	4167-157CON	4136-156	4136-151	4136-150DV2	4136-150DIV	FILE #
04/27/00	04/27/00	4/27/00	4/27/00	4/25/00	5/8/00	5/8/00	DATE
07/501,784	07/395,661	08/283,535	07/977,220	06/905,657	09/233,705	08/744,569	AAV SERIAL NO.
3/30/90	8/18/89	8/1/94	11/16/92	9/11/86	01/19/99	11/06/96	ID THERI FILING DATE
U.S. Patent Application For: Free-Standing Stanchion For Supporting And Protecting Electronic Device Packages On Circuit Boards Former Atty Ref: 88721-62981	U.S. Patent Application For: Apparatus And Method Of Attaching An Electronic Device Package And A Heat Sink To A Circuit Board Former Atty Ref: 88721-62976	U.S. Continuation Patent Application For: Spring Clamp and Heat Sink Assembly Former Atty Ref: 88721-62933	U.S. Patent Application For Heat Sink Mounting Apparatus Former Atty Ref: 88721-60653	U.S. Patent Application For: Heat Sink Clip Assembly Former Atty Ref: 88721-62959	U.S. Divisional Application For: Strap Spring For Heat Sink Clip Assembly Former Atty Ref: THRM-0118	U.S. Divisional Patent For: Strap Spring For Heat Sink Clip Assembly Former Atty Ref:	AAVID THERMALLOY TRANSFER TABLE L NO. FILING TITLE DATE
10/9/90	10/2/90	11/7/95	1/4/94	7/29/97 (Reissue)	9/5/00	03/30/99	ISSUE
4,962,442	4,961,125	5,464,054	5,276,585	Re. 35,573	6,115,253	5,889,653	PATENT NO.
Inermatioy, Inc.	Inc.	Inc.	Inc.	Thermalloy,	Thermalloy, Inc.	Thermalloy.	ASSIGNEE STATUS

Inc.	5,138,324	8/11/92	U.S. Patent Application  For: Apparatus For Securing Electronic	9/19/91	07/762,377	04/28/00	4136-167	
Thermalloy.	£ 120 621		Former Atty Ref: 88721-62942					_
			Components			er-en-en-		
			Mounting Of Printed Circuit Board			-		
H.C.			For: Spring Clip Fastener For Surface					
Inellianoy,	5,130,888	7/14/92	U.S. Patent Application	4/21/86	06/853,909	04/28/00	4136-166	
Thomasilov			Former Atty Ref: 88721-62952					
			For: Hooked Spring Clip					
Inc.	5,466,970	11/14/95	U.S. Patent Application	8/24/96	07/933,781	04/28/00	4136-165	
Thermallov			Former Atty Ref: 88721-62980					
			Manufacture					
			For: Finned Heat Sink And Method Of					
Inc.	5,038,858	8/13/91	U.S. Patent Application	3/13/90	07/492,926	04/28/00	4136-164	
Thomallow			Former Atty Ref: 88721-62969					_
			Device Packages					
			For: Mounting Apparatus For Electronic					
Inc.	5,019,940	5/28/91	U.S. Patent Application	12/3/97	07/128,390	04/28/00	4136-163	
Thomallow			Former Atty Ref: 88721-62970					
			Mounting Assembly					
			For: Electronic Device Package					
Inc.	5,068,764	11/26/91	U.S. Patent Application	3/5/90	07/488,117	04/27/00	4136-162	
Thomasllov			Former Atty Ref: 88721-6230					
			For: Direct Bonded Heat Spreader					
Inc.	5,650,662	7/22/97	U.S. Patent Application	8/19/94	08/293,510	04/27/00	4136-161	
Thomallow			Former Atty Ref: 88721-62982					_
			For: Interlocking Attachment Assembly					-
Inc.	5,365,654	11/22/94	U.S. Patent Application	5/10/93	08/058,380	04/27/00	4136-160	
JIMICO Thursday	NO.	DATE		DATE		OPENED		
ASSIGNED	- 41 	ISSUE	TITLE	FILING	SERIAL NO.	DATE	FILE #	
CONTRA	-		AAVID THERMALLOY TRANSFER TABLE	DTHERN	AAVI			

		4136-179			4136-177			4136-175			4136-174			4136-173			4136-172C			4136-170CN2					4136-168CN2		FILE #	
		04/29/00			04/29/00			04/29/00			04/29/00			04/29/00			4/29/00			8/29/00					04/28/00	OPENED	DATE	
	ALARA MAYA	06/595,910			07/120,804			06/626,660			06/718,557			06/718,558			07/275,545							-	07/207,645		SERIAL NO.	AAVI
		4/2/84			11/16/87			7/2/84			4/1/85			4/1/85			11/25/88								6/16/88	DATE	FILING	ID THER
Former Atty Ket: 88/21-62985	For: Heat Sink or Similar Article	U.S. Design Application	Former Atty Ref: 88721-62991	For: Heat Sink Or Similar Article	U.S. Design Application	Former Atty Ref: 88721-62993	For: Heat Sink Or Similar Article	U.S. Design Application	Former Atty Ref: 88721-62990	For: Heat Sink Or Similar Article	U.S. Design Application	Former Atty Ref: 88721-62989	For: Heat Sink Or Similar Article	U.S. Design Application	Former Atty Ref: 88721-62988	For: Heat Sink Or Similar Article	U.S. Design Application	Device Assemblies	For: Insulating Apparatus For Electronic	U.S. Patent Application	Former Atty Ref: 88721-62962	Heat Sinks On Circuit Boards	Mounting Electronic Components And	For: Alignment Apparatus For Use In			TITLE	AAVID THERMALLOY TRANSFER TABLE
		8/19/86			4/18/89			7/29/86			4/19/88			4/19/88			12/11/90			5/28/91					//11/89	DAIE	ISSUE	
		D285,193			D300,738			D284,851			D295,282			D295,281			D312,819			5,019,942					4,847,447	10.		
		Inc.	Thomallov		Inc.	Thormallov		Inc.	Thermallov		Inc.	Thermallov		Inc.	Thormallov		Inc.	Thormallov		Inc.	Thormallov				Inc.	Thermalloy,	STATUS	ASSIGNEE

Page 6 of 7

### EXHIBIT B - "PATENTS"

4,521,827 Thermalloy, Inc. 5,847,928 Thermalloy, Inc.			II S Patent Application	6/10/07	09/979 003	5/0/M	413K 101CTS
			Former Atty Ref. No.				
	_		Sinks to Circuit Boards				
		12/8/98	U.S. Patent Application	7/9/96	08/677,596	5/9/00	4136-190
	-	2000	Former Atty Ref: 88721-62964	5			
			For: Heat Sink Mounting				
-	 4,	6/4/85	U.S. Divisional Application	9/4/85	06/457,409	5/3/00	4136-188DIV
			188CON)				
			(Same File For 188, 188CIP &				
		•	Former Atty Ref: 88721-62963				
			For: Heat Sink Mounting		***		
4,403,102 Inc.		9/6/83	U.S. Continuation Application	10/23/81	06/314,202	5/3/00	4136-188CON
Thermallov.			Former Atty Ref: 88721-62984				
		-	Heat Sinks				
			For: Solderable Mounting Stakes For				
4,388,96/ Inc.	4,3	6/21/83	U.S. Patent Application	9/2/80	06/183,240	05/02/00	4136-187
-			Former Atty Ref: 88721-62979				
			Printed Circuit Board Components				
			For: Fasteners for Surface Mounting of				
4,625,260 Inc.	4,6	11/25/86	U.S. Patent Application	8/24/84	06/644,038	05/02/00	4136-186
+-	+-		Former Atty Ref: 88721-62953				
			For: Self-Securing Heat Sink				
4,609,040 Inc.	4,60	9/2/86	U.S. Patent Application	4/1/85	06/718,556	05/02/00	4136-185
+-			Former Atty Ref: D716			O MATERIA DE LA CALLA DE LA CALLA DE LA CALLA DE LA CALLA DEL CALL	
			Package And A Heat Sink				
			Contact Between An Electronic Device				
			For: Spring Clip For Retaining Thermal				
D357,227 lnc.	D35	4/11/95	U.S. Design Application	9/24/93	29/013,459	04/29/00	4136-180
+	7	DATE		DATE		OPENED	
PATENT ASSIGNED	PAT	ISSUE	TITLE	FILING	SERIAL NO.	DATE	FILE#

	4136-197CON			4136-196CON			4136-193CIP		4136-192CIP		4136-192					4136-191DV2		FILE #	The state of the s
	6/21/00			6/15/00			05/11/00		5/17/00		5/9/00					6/9/00	OPENED	DATE	
	08/663,600			08/786,408			09/228,775		08/621,167		08/482,011					08/910,314		SERIAL NO.	AAVI
	6/14/96			1/20/97			1/6/99		3/22/96		6/7/95					8/13/97	DATE	FILING	D THER
a Printed Circuit Board Former Atty Ref: THRM-0030	U.S. Patent Application  For: Anchor For Securing a Heat Sink to	Sink	For: Solderable Transistor Clip and Heat	U.S. Patent Application	Packages to Heat Sinks	For: Attachment of Electronic Device	U.S. CIP Patent Application	For: Fan Attachment Clip for Heat Sink	U.S. Patent Application	For: Fan Attachment Clip for Heat Sink	U.S. Patent Application	6/21/96	Divisional of USP #08/669,875 filed	Sinks With a Protective Coating	For: Pre-Application of Grease to Heat	U.S. Patent Application		TITLE	AAVID THERMALLOY TRANSFER TABLE
	6/17/97			12/01/98			11/23/99		10/14/97		12/31/96					4/27/99	DATE	ISSUE	
	5,640,305			5,844,312			5,991,154		5,677,829		5,590,025					5,897,917	NO.	PATENT	
	Inc.		i c	Inermanoy,		ļ	Inc.		Inc.		Inermalloy,	=				Inc.	SIAIUS	ASSIGNEE	COVENIE

PATENT
RECORDED: 11/06/2000 REEL: 011314 FRAME: 0284