

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4305212

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	PATENT RELEASE AND REASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
ANTERES CAPITAL LP (AS SUCCESSOR BY ASSIGNMENT TO GENERAL ELECTRIC CAPITAL CORPORATION)		02/28/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	VIPER BORROWER CORPORATION, INC.	
<b>Street Address:</b>	ONE VIPER WAY	
<b>City:</b>	VISTA	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	92081	
<b>Name:</b>	VIPER HOLDINGS CORPORATION	
<b>Street Address:</b>	ONE VIPER WAY	
<b>City:</b>	VISTA	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	92081	
<b>Name:</b>	VIPER ACQUISITION CORPORATION	
<b>Street Address:</b>	ONE VIPER WAY	
<b>City:</b>	VISTA	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	92081	
<b>Name:</b>	DEI SALES, INC.	
<b>Street Address:</b>	ONE VIPER WAY	
<b>City:</b>	VISTA	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	92081	
<b>Name:</b>	DEI HOLDINGS, INC.	
<b>Street Address:</b>	ONE VIPER WAY	
<b>City:</b>	VISTA	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	92081	
<b>Name:</b>	DEI INTERNATIONAL, INC.	
<b>Street Address:</b>	ONE VIPER WAY	

PATENT

<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081
<b>Name:</b>	DEI HEADQUARTERS, INC.
<b>Street Address:</b>	ONE VIPER WAY
<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081
<b>Name:</b>	POLK HOLDING CORP.
<b>Street Address:</b>	ONE VIPER WAY
<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081
<b>Name:</b>	POLK AUDIO, INC.
<b>Street Address:</b>	ONE VIPER WAY
<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081
<b>Name:</b>	POLK AUDIO, LLC
<b>Street Address:</b>	ONE VIPER WAY
<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081
<b>Name:</b>	BOOM MOVEMENT, LLC
<b>Street Address:</b>	ONE VIPER WAY
<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081
<b>Name:</b>	DEFINITIVE TECHNOLOGY, LLC
<b>Street Address:</b>	ONE VIPER WAY
<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081
<b>Name:</b>	DIRECTED, LLC
<b>Street Address:</b>	ONE VIPER WAY
<b>City:</b>	VISTA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92081

**PROPERTY NUMBERS Total: 159**

Property Type	Number
Patent Number:	5245694
Patent Number:	5315285
Patent Number:	5349931
Patent Number:	5357560
Patent Number:	5388221
Patent Number:	5467070
Patent Number:	5517573
Patent Number:	5532670
Patent Number:	5534845
Patent Number:	5563576
Patent Number:	5646591
Patent Number:	5650774
Patent Number:	5656868
Patent Number:	5656997
Patent Number:	5696357
Patent Number:	5712638
Patent Number:	5764026
Patent Number:	5783988
Patent Number:	5783989
Patent Number:	5790481
Patent Number:	5798711
Patent Number:	5809154
Patent Number:	5872519
Patent Number:	5887068
Patent Number:	5900806
Patent Number:	5907195
Patent Number:	5914667
Patent Number:	5945936
Patent Number:	5952933
Patent Number:	5990786
Patent Number:	6028372
Patent Number:	6028505
Patent Number:	6069962
Patent Number:	6093979
Patent Number:	6169812
Patent Number:	6097829
Patent Number:	6184779

Property Type	Number
Patent Number:	6218740
Patent Number:	6259169
Patent Number:	6317034
Patent Number:	6339369
Patent Number:	6452483
Patent Number:	6452484
Patent Number:	6696931
Patent Number:	6700220
Patent Number:	6700479
Patent Number:	6721434
Patent Number:	6728389
Patent Number:	6781507
Patent Number:	6828901
Patent Number:	6924728
Patent Number:	6937737
Patent Number:	6956337
Patent Number:	6982631
Patent Number:	7039212
Patent Number:	7043034
Patent Number:	7082772
Patent Number:	7095314
Patent Number:	7119503
Patent Number:	7135962
Patent Number:	7142685
Patent Number:	7162049
Patent Number:	7191053
Patent Number:	7231053
Patent Number:	7248150
Patent Number:	7483783
Patent Number:	7532959
Patent Number:	7605554
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Patent Number:	7646285
Patent Number:	7684582
Patent Number:	7817812
Patent Number:	7898386
Patent Number:	7916004
Patent Number:	7540460

Property Type	Number
Patent Number:	5673017
Patent Number:	6087996
Patent Number:	6467448
Patent Number:	6561151
Patent Number:	7519400
Patent Number:	7786848
Patent Number:	8194874
Patent Number:	8243963
Patent Number:	D383689
Patent Number:	D383690
Patent Number:	D384353
Patent Number:	D387058
Patent Number:	D390830
Patent Number:	D392944
Patent Number:	D419474
Patent Number:	D440559
Patent Number:	D448360
Patent Number:	D463407
Patent Number:	D469413
Patent Number:	D469708
Patent Number:	D469747
Patent Number:	D472163
Patent Number:	D496001
Patent Number:	D496002
Patent Number:	D496911
Patent Number:	D496912
Patent Number:	D496913
Patent Number:	D497714
Patent Number:	D507781
Patent Number:	D538767
Patent Number:	D554081
Patent Number:	D554082
Patent Number:	D558153
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Patent Number:	D583773
Patent Number:	D583774
Patent Number:	D584241
Patent Number:	D605605

Property Type	Number
Patent Number:	D617775
Patent Number:	D621385
Patent Number:	D623170
Application Number:	11600368
Application Number:	11641446
Application Number:	11950142
Application Number:	12798994
Application Number:	12807023
Application Number:	12823852
Application Number:	12924447
Application Number:	12982584
Application Number:	13010315
Application Number:	29296898
Application Number:	13162294
Application Number:	61390998
Application Number:	61413206
Application Number:	61468002
Patent Number:	4794368
Patent Number:	4887064
Patent Number:	4897630
Patent Number:	4922224
Patent Number:	4987402
Patent Number:	5117217
Patent Number:	5146215
Patent Number:	5157375
Patent Number:	5193141
Patent Number:	5614883
Patent Number:	5617819
Patent Number:	5701359
Patent Number:	6557742
Patent Number:	5730409
Patent Number:	6694530
Application Number:	61865531
Application Number:	61865514
Application Number:	61864425
Application Number:	61765893
Application Number:	61749369
Application Number:	61736802

Property Type	Number
Application Number:	29464143
Application Number:	29464140
Application Number:	29456060
Application Number:	29456055
Application Number:	29456048
Application Number:	14093368
Application Number:	14087951
Application Number:	14031032

#### CORRESPONDENCE DATA

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**ATTORNEY DOCKET NUMBER:** 014951-1693

**NAME OF SUBMITTER:** SCOTT KAREFF (014951-1693)

**SIGNATURE:** /kc for sk/

**DATE SIGNED:** 03/06/2017

#### Total Attachments: 10

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## **PATENT RELEASE AND REASSIGNMENT**

THIS PATENT RELEASE AND REASSIGNMENT (this “Release”) is made as of February 28, 2017, by Antares Capital LP (as successor by assignment to General Electric Capital Corporation) as US Agent (“US Agent”). Capitalized terms used but not defined herein shall have the same meanings assigned to such terms in the Security Agreements (as defined below).

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

WHEREAS, Viper Borrower Corporation, Inc., a Florida corporation, Viper Holdings Corporation, a Delaware corporation, Viper Acquisition Corporation, a Florida corporation, DEI Sales, Inc., a Florida corporation, DEI Holdings, Inc., a Florida corporation, DEI International, Inc., a Florida Corporation, DEI Headquarters, Inc., a Florida corporation, Polk Holding Corp., a Maryland corporation, and Polk Audio Inc., a Maryland corporation, Polk Audio, LLC, a Delaware limited liability company, BOOM Movement, LLC, a Delaware limited liability company, Definitive Technology, LLC, a Delaware limited liability company, and Directed, LLC, a Delaware limited liability company (each a “Grantor” and collectively, the “Grantors”) granted a security interest in certain patents of the Grantors to US Agent, pursuant to (i) that certain Patent Security Agreement, dated as of June 21, 2011, by certain of the Grantors in favor of US Agent and recorded with the United States Patent and Trademark Office on July 13, 2011, at Reel 26587, Frame 0386 and (ii) that certain Affirmation of Patent Security Interest, dated as of February 28, 2014, by certain of the Grantors in favor of US Agent and recorded with the United States Patent and Trademark Office on April 8, 2014 at Reel 32632, Frame 0703 and Reel 32631, Frame 0742 (the “Security Agreements”; capitalized terms used but not otherwise defined herein having the meanings assigned to such terms in the Security Agreements, as applicable);

NOW THEREFORE, for good and valuable consideration, receipt and sufficiency of which are hereby acknowledged by the parties to the Security Agreements:

1. US Agent hereby releases its entire Lien on and security interest in all of the Grantor’s right, title and interest in, to and under the Patent Collateral (including, without limitation, the patents referred to on Schedule 1 hereto) and authorizes the recordation of this Release with the United States Patent and Trademark Office.
2. US Agent hereby reassigns, grants and conveys to the Grantors, without any representation, recourse or undertaking by US Agent, any and all of US Agent’s right, title and interest in, to and under the Patent Collateral, if any, and US Agent hereby releases, terminates and cancels any mortgage, pledge and hypothecate made by the Grantors to US Agent pursuant to the Security Agreements.
3. US Agent hereby agrees to duly execute, acknowledge, procure and deliver any further documents and to do such other acts as may be reasonably necessary to effect the release of the security interest contemplated hereby.
4. This Release and the rights and obligations hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

[Signature page follows.]



IN WITNESS WHEREOF, US Agent has caused this Patent Release and Reassignment to be executed as of the day and year first above written.

**ANTARES CAPITAL LP**, as US Agent



By: \_\_\_\_\_

Name: Ellen Weaver

Title: Duly Authorized Signatory

# SCHEDULE 1

## UNITED STATES UTILITY PATENTS

Patent No.	Title	Application Number	Filing Date	Issue Date	Assignee
5,245,694	User - Programmable Voice Notification Device for Security Alarm Systems	07/693,958	4/29/91	9/14/1993	DEI Headquarters, Inc.
5,315,285	Alarm System for Sensing and Vocally Warning a Person Approaching a Protected Object	07/875,061	4/28/92	5/24/1994	DEI Headquarters, Inc.
5,349,931	Automatic Vehicle Starter	08/082,545	6/28/93	9/27/1994	DEI Headquarters, Inc.
5,357,560	Adaptable Alarm Interface Unit for Use Electronic Automobile Alarm Systems and the Like	08/227,586	4/14/94	10/18/1994	DEI Headquarters, Inc.
5,388,221	Adaptive Digital audio Interpolation System	07/879,976	05/05/1992	02/07/1995	DEI Headquarters, Inc.
5,467,070	Vehicle Security System with Secure Valet Switch	08/017,801	2/16/93	11/14/1995	DEI Headquarters, Inc.
5,517,573	Ported Loudspeaker System and Method with Reduced Air Turbulence	08/294,412	8/23/1994	5/14/1996	Polk Audio, Inc.
5,532,670	Method of Indicating the Threat Level of an Incoming Shock to an Electronically Secured Vehicle and Apparatus therefore	08/112,940	8/30/93	7/2/1996	DEI Headquarters, Inc.
5,534,845	Advanced Automotive Automation and Security System	07/945,667	9/16/92	7/9/1996	DEI Headquarters, Inc.
5,563,576	Vehicle Security System Siren With Backup Rechargeable Battery	08/384,351	2/2/95	10/8/1996	DEI Headquarters, Inc.
5,646,591	Advanced Method of Indicating Threat Incoming Level to an Electronically Secured Vehicle and Apparatus	08/468,703	6/5/95	7/8/1997	DEI Headquarters, Inc.
5,650,774	Electronically Programmable Remote Control Access	08/334,843	11/4/94	6/22/1997	DEI Headquarters, Inc.
5,656,868	Remote Vehicle Starter For Standard Transmission Vehicle	08/542,378	10/12/95	8/12/1997	DEI Headquarters, Inc.
5,656,997	Magnetic Resonance Alarm Device	08/491,371	6/16/95	8/12/1997	DEI Headquarters, Inc.
5,696,357	Improved Bass-Reflex Loudspeaker	08/519,365	8/25/1995	12/9/1997	Polk Audio, Inc.
5,712,638	Multiple Transmission Channel Group Transmitter	08/451,855	5/26/95	1/27/1998	DEI Headquarters, Inc.
5,764,026	Spare Cellular Telephone Charging Unit	08/720,956	10/4/96	6/9/1998	DEI Headquarters, Inc.
5,783,988	Vehicle Security System	08/555,285	11/8/1995	7/21/1998	DEI Headquarters, Inc.
5,783,989	Alarm Sensor Multiplexing	08/396,115	2/28/95	7/21/1998	DEI Headquarters, Inc.
5,790,481	Retrofittable CD Player System	08/754,764	12/21/1996	08/04/1998	DEI Headquarters, Inc.
5,798,711	High Throughput Embedded Code Hopping System	08/460,106	6/2/95	8/25/1998	DEI Headquarters, Inc.
5,809,154	Ported Loudspeaker System and Method	08/453,557	5/26/1995	9/15/1998	Polk Audio, Inc.
5,872,519	Advanced Embedded Code Hopping System	08/425,597	4/20/1995	2/16/1999	DEI Headquarters, Inc.
5,887,068	Multi-Driver In-Phase bipolar array Loudspeaker	08/583,504	1/5/1996	3/23/1999	DEI Headquarters, Inc.

Patent No.	Title	Application Number	Filing Date	Issue Date	Assignee
5,900,806	Alarm Sensor Multiplexing	09/073,048	4/1/1998	5/4/1999	DEI Headquarters, Inc.
5,907,195	Channel Expander for Remotely Controlled Automotive Security and Convenience Systems	08/866,655	5/30/1997	5/25/1999	DEI Headquarters, Inc.
5,914,667	Advanced Embedded Code Hopping System	08/931,102	9/15/1997	6/22/1999	DEI Headquarters, Inc.
5,945,936	Learn Mode for Remote Transmitters	08/734,040	10/18/96	8/31/1999	DEI Headquarters, Inc.
5,952,933	System Having Advanced Embedded Code Hopping Encryption and Learn Mode Therefore	08/929,876	9/15/97	9/14/1999	DEI Headquarters, Inc.
5,990,786	Advanced Method of Indicating Incoming Threat Level to an Electronically Secured Vehicle and Apparatus	08/753,529	2/28/95	11/23/1999	DEI Headquarters, Inc.
6,028,372	Daily Start Operation for Remote Vehicle Starters	09/025,250	2/18/98	2/22/2000	DEI Headquarters, Inc.
6,028,505	Electronic Vehicle Security System with Remote Control	08/622,357	3/27/96	2/22/2000	DEI Headquarters, Inc.
6,069,962	Point Source Speaker System	09/227,006	1/7/1999	5/30/2000	ADS Acquisitions, Inc.
6,093,979	Channel Expander for Remotely Controlled Automotive and Security and Convenience Systems	09/318,207	5/25/99	7/25/2000	DEI Headquarters, Inc.
6,169,812	Point Source Speaker System	09/173,606	10/14/98	1/2/2001	ADS Acquisitions, Inc.
6,097,829	Fiber-Honeycomb-Fiber Sandwich Speaker Diaphragm and Method	08/955,254	10/21/97	9/1/2000	DEI Headquarters, Inc.
6,184,779	Vehicle Security System Having Wireless Function Programming Capability	08/790,954	1/29/97	2/6/2001	DEI Headquarters, Inc.
6,218,740	Integration Module for Supplemental Controllers	09/288,473	4/8/99	4/17/2001	DEI Headquarters, Inc.
6,259,169	Flexible Alarm Bypass Module For A Vehicle	09/412,602	10/6/1999	7/10/2001	DEI Headquarters, Inc.
6,317,034	Alarm Sensor Multiplexing	09/293,325	4/16/99	11/13/2001	DEI Headquarters, Inc.
6,339,369	Retrofittable Vehicle Collision Warning Apparatus	09/159,137	8/23/98	1/15/2002	DEI Headquarters, Inc.
6,452,483	Vehicle Security System having Wireless Function Programming Capabilities	09/732,525	12/6/00	9/17/2002	DEI Headquarters, Inc.
6,452,484	Electronic Vehicle Security System with Remote Control	09/510,876	3/22/00	9/17/2002	DEI Headquarters, Inc.
6,696,931	Retrofittable Vehicle Collision Warning Apparatus	09/938,897	9/24/01	2/24/2004	DEI Headquarters, Inc.
6,700,220	Remote Control Pass-Key Module for Anti-Theft System Equipped Vehicles and Installation Method	10/160,975	5/30/02	3/2/2004	Accessories Electronics Bomar, Inc. (Trilogix)
6,700,479	Vehicle Security System Having Advanced Wireless Function-Programming Capability	10/236,716	9/6/02	3/2/2004	DEI Headquarters, Inc.
6,721,434	Improved Loudspeaker Mounting System	10/328,362	12/23/2002	4/13/2004	Polk Audio, Inc.

Patent No.	Title	Application Number	Filing Date	Issue Date	Assignee
6,728,389	Membrane Support System	10/420,147	4/22/03	4/27/2004	DEI Headquarters, Inc.
6,781,507	Remote Start, Passive Anti Theft Security System	08/857,711	5/16/97	8/24/2004	DEI Headquarters, Inc.
6,828,901	Remote Start, Passive Anti Theft Security System	09/732,465	12/6/00	12/7/2004	DEI Headquarters, Inc.
6,924,728	Safety Feature for Vehicles Parked Indoors	10/143,839	5/14/02	8/2/2005	No-Start Inc.
6,937,737	Multi-channel audio surround sound from front located loudspeakers	10/692,692	10/27/2003	8/30/2005	Polk Audio, Inc.
6,956,337	Temperature-to-Color converter and Conversion Method	10/633,472	8/1/2003	10/18/2005	DEI Headquarters, Inc.
6,982,631	Automotive Security System with Self Biasing Bypass Immobilizer	10/750,153	12/30/2003	1/3/2006	DEI Headquarters, Inc.
7,039,212	Weather resistant porting	10/660,727	9/12/2003	5/2/2006	Polk Audio, Inc.
7,043,034	Loudspeaker with single or dual channel input selector and lockout	10/660,733	9/12/2003	5/9/2006	Polk Audio, Inc.
7,082,772	Peltier Temperature Control System for Electronic Components	10/645,882	8/20/2003	8/1/2006	DEI Headquarters, Inc.
7,095,314	Event Reporting System with Conversion of Light Indications into Voiced Signals	10/789,060	2/27/2004	8/22/2006	DEI Headquarters, Inc.
7,119,503	Temperature To Color Converter and Conversion Method	11/018,935	12/20/2004	10/10/2006	DEI Headquarters, Inc.
7,135,962	Security and Remote Access For Vehicular Entertainment, Safety, and Convenience Systems	11/018,689	12/20/2004	11/14/2006	DEI Headquarters, Inc.
7,142,685	Adjustable Loudspeaker	10/649,133	8/27/2003	11/28/2006	DEI Headquarters, Inc.
7,162,049	Ported loudspeaker system and method with reduced air turbulence, bipolar radiation pattern and novel appearance	10/337,347	1/7/2003	1/9/2007	Polk Audio, Inc.
7,191,053	Remote Starting System for a Vehicle	10/747,295	12/29/2003	3/13/2007	Astroflex, Inc.
7,231,053	Enhanced multi-channel audio surround sound from front located loudspeakers	11/147,447	10/27/2003	6/12/2007	Polk Audio, Inc.
7,248,150	Menu-Driven Remote control transmitter	10/699,009	10/30/2003	7/24/2007	DEI Headquarters, Inc.
7,483,783	Remote Starting System for a Vehicle	11/698,582	1/26/2007	1/27/2009	Astroflex, Inc.
7,532,959	Manual Transmission Engine Remote Start System and Method	10/937,139	9/8/2004	5/12/2009	DEI Headquarters, Inc.
7,605,554	Anti-Pinch Window Control System	11/595,520	11/9/2006	10/20/2009	DEI Headquarters, Inc.
7,616,099	Menu Driven Remote Control Transmitter	11/762,235	6/13/2007	11/10/2009	DEI Headquarters, Inc.
7,646,285	Security and Remote Access For Vehicular Safety and Convenience Systems	11/518,114	9/8/2006	1/12/2010	DEI Headquarters, Inc.
7,684,582	Electrodynamic Acoustic Transducer	11/202,436	8/11/2005	3/23/2010	DEI Headquarters, Inc.
7,817,812	Compact Audio Reproduction System with Large Perceived Acoustic Size and Image	11/139,611	5/31/2005	10/19/2010	Polk Audio, Inc.
7,898,386	Control Device for Vehicles	11/079,468	3/15/2005	3/1/2011	DEI Headquarters, Inc.

<b>Patent No.</b>	<b>Title</b>	<b>Application Number</b>	<b>Filing Date</b>	<b>Issue Date</b>	<b>Assignee</b>
7,916,004	Security System with Passive Locking Bypass	11/642,227	12/20/2006	3/29/2011	DEI Headquarters, Inc.
7,540,460	Mounting Assembly	11/454,961	6/16/2006	6/2/2009	Polk Audio, Inc.
7,898,386	Control Device for Vehicles	11/079,468	3/15/2005	3/1/2011	DEI Headquarters, Inc.
5,673,017	Remote vehicle starting system	08/410,408	03/27/1995	09/30/1997	Directed Electronics Canada, Inc.
6,087,996	Thin Film antenna device for use with remote vehicle starting systems	08/803,762	02/21/1997	07/11/2000	Directed Electronics Canada, Inc.
6,467,448	Remote Engine Starter System	09/755,052	01/08/01	10/22/2002	3061868 Canada, Inc.
6,561,151	Remote Control Car Starter	09/642,565	08/22/2000	05/13/2003	3061868 Canada, Inc.
7,519,400	Multi Modulation Remote Control Communication System	11/140,623	05/27/2005	04/14/2009	Directed Electronics Canada, Inc.
7,786,848	Vehicle Security Systems	11/437,727	04/22/2006	08/31/2010	Directed Electronics Canada, Inc.
8,194,874	In-Room Acoustic Magnitude Response Smoothing via Phase Summation of Correction Signal	12/153,623	05/21/2008	06/05/2012	Polk Audio, LLC
8,243,963	Swivel Tweeter Mechanism for a Constant Phase Coaxial Acoustic Transducer	12/456,542	06/18/2009	08/14/2012	Definitive Technology, LLC

**UNITED STATES DESIGN PATENTS**

<b>Design Patent No.</b>	<b>Description</b>	<b>Date Filed</b>	<b>Issue Date</b>	<b>Expiration Date</b>	<b>Assignment</b>
D383,689	Security System Housing	8/26/96	9/16/97	9/17/2011	DEI Headquarters, Inc.
D383,690	Security System Housing and Siren	8/27/96	9/16/97	9/17/2011	DEI Headquarters, Inc.
D384,353	Loudspeaker	3/14/1996	9/30/1997	10/1/2011	Polk Audio Inc.
D387,058	Loudspeaker	11/25/1996	12/2/1997	12/3/2011	Polk Audio Inc.
D390,830	Remote Control Transmitter	8/27/96	2/17/98	2/18/2012	DEI Headquarters, Inc.
D392,944	Remote Control Transmitter	9/30/96	3/31/98	3/31/2012	DEI Headquarters, Inc.
D419,474	Remote Control Transmitter	3/1/99	1/25/00	1/25/2014	DEI Headquarters, Inc.
D440,559	Portion of a Speaker	11/22/1999	4/17/2001	4/18/2015	Polk Audio Inc.
D448,360	Portion of a Speaker	11/22/1999	9/25/2001	9/26/2015	Polk Audio Inc.
D463,407	Speaker	11/22/1999	9/24/2002	9/24/2016	Polk Audio Inc.
D469,413	Headrest or Seatback Entertainment Display	1/5/2002	1/28/2003	1/28/2017	DEI Headquarters, Inc.
D469,708	Handheld Transceiver with LCD Display	1/5/2002	2/4/2003	2/4/2017	DEI Headquarters, Inc.
D469,747	Entertainment Console with a Detachable Display	1/5/2002	2/4/2003	2/4/2017	DEI Headquarters, Inc.
D472,163	External Receiver Case	1/5/2002	3/25/2003	3/25/2017	DEI Headquarters, Inc.
D496,001	Handheld Transmitter	12/17/2003	9/14/2004	9/15/2018	DEI Headquarters, Inc.

D496,002	Handheld Transceiver with LCD Display	12/17/2003	9/14/2004	9/15/2018	DEI Headquarters, Inc.
D496,911	Handheld Transmitter	12/17/2003	10/5/2004	10/6/2018	DEI Headquarters, Inc.

<b>Design Patent No.</b>	<b>U.S.</b>	<b>Description</b>	<b>Date Filed</b>	<b>Issue Date</b>	<b>Expiration Date</b>	<b>Assignment</b>
D496,912		Handheld Transmitter	12/17/2003	10/5/2004	10/6/2018	DEI Headquarters, Inc.
D496,913		Handheld Transmitter	12/18/2003	10/5/2004	10/6/2018	DEI Headquarters, Inc.
D497,714		Remote Control Transmitter Holster	12/17/2003	11/2/2004	11/3/2018	DEI Headquarters, Inc.
D507,781		Handheld Transmitter (BOA)	12/17/2003	7/26/2005	7/27/2019	DEI Headquarters, Inc.
D538,767		Audio System	8/29/2005	3/20/2007	3/20/2021	Polk Audio Inc.
D554,081		Handheld Transmitter	9/28/2006	10/30/2007	10/30/2021	DEI Headquarters, Inc.
D554,082		Handheld Transmitter	9/28/2006	10/30/2007	10/30/2021	DEI Headquarters, Inc.
D558,153		Handheld Transmitter	9/28/2006	12/25/2007	12/25/2021	DEI Headquarters, Inc.
D583,772		Handheld Transmitter	9/28/2006	12/30/2008	12/31/2022	DEI Headquarters, Inc.
D583,773		Handheld Transmitter	9/28/2006	12/30/2008	12/31/2022	DEI Headquarters, Inc.
D583,774		Handheld Transmitter	9/28/2006	12/30/2008	12/31/2022	DEI Headquarters, Inc.
D584,241		Handheld Transmitter	9/28/2006	1/6/2009	1/7/2023	DEI Headquarters, Inc.
D605,605		Handheld Transmitter	9/28/2006	12/8/2009	12/9/2023	DEI Headquarters, Inc.
D617,775		Speaker	10/30/2007	6/15/2010	6/16/2024	Polk Audio Inc.
D621385		Speaker	11/6/2009	8/10/2010	8/10/2024	DEI Headquarters, Inc.
D623170		Subwoofer	11/6/2009	9/7/2010	9/7/2024	DEI Headquarters, Inc.

**PENDING UNITED STATES PATENT APPLICATIONS**

<b>Country</b>	<b>Serial Number</b>	<b>Filing Date</b>	<b>Title of Invention</b>	<b>Entity</b>
USA	11/600,368	11/15/2006	Remote Engine Start Confirmation and Vehicle Monitoring and Control System	DEI Headquarters, Inc.
USA	11/641,446	12/18/2006	Ceiling or Wall Mounted Loudspeaker System with Anti-Diffraction Wave Launch Device	DEI Headquarters, Inc.
USA	11/950,142	12/4/2007	A Method and Apparatus for Controlling a Vehicle Function	Directed Electronics Canada, Inc.
USA	12/798,994	4/14/2010	Passive Keyless Entry System with Advanced Dynamic Scheduling	DEI Headquarters, Inc.
USA	12/807,023	8/26/2010	Circuit board integrated motion sensor	DEI Headquarters, Inc.
USA	12/823,852	6/25/2010	Ceiling Mounted Loudspeaker Enclosure	Polk Audio, Inc.
USA	12/924,447	9/28/2010	Security System and Method for Operating Same	DEI Headquarters, Inc.
USA	12/982,584	12/30/2010	Low-Profile Loudspeaker Driver and Enclosure	DEI Headquarters, Inc.

Country	Serial Number	Filing Date	Title of Invention	Entity
USA	13/010,315	1/20/2011	Secured Area Access System, Apparatus and Method	DEI Headquarters, Inc.
USA	29/296,898	10/30/2007	Portion of a Speaker (Isonic 1/2)	Britannia Investment Corporation
USA	13/162,294	6/16/2010	Bipolar Speaker With Improved Clarity & Electrodynamic Acoustic Transducer with Bulbous Waveguide Tip	DEI Headquarters, Inc.
USA	61/390,998	10/7/2010	Canaphones with Structure and Method for Selectively Passing or Blocking Environmental Ambient Sound	Polk Audio, Inc.
USA	61/413,206	10/12/2010	Single Enclosure Surround Sound Loudspeaker System and Method	Polk Audio, Inc.
USA	61/468,002	3/26/2011	Engine Idle Protection System	DEI Headquarters, Inc.

# ABANDONED AND EXPIRED PATENTS

Country	Patent No.	Inventor	Title	Application Number	Filing Date
USA	4,794,368	Grossheim et al	Programmable Alarm System Having Vocal Alarm and reporting Features	5873	1/21/87
USA	4,887,064	Droni, Ze'Ev	Multi-Featured Security System With Self-Diagnostic Capability	138828	12/28/87
USA	4,897,630	Nykerk	rm System Having Proximity Detection with Vocal Alarm and Reporting		5/29/14
USA	4,922,224	Droni, Abrishami	Electronic Vehicle Security System	231159	8/11/88
USA	4,987,402	Nykerk	Alarm system for sensing and vocally warning of an unauthorized approach towards a protected object or zone	07/423,988	10/11/89
USA	5,117,217	Nykerk	Alarm System for Sensing and Vocally Warning a Person to Step Back from a Protected Object	07/610,402	1/7/90
USA	5,146,215	Droni, Ze'Ve	Electronically Programmable Remote Control for Vehicle Security System	07/277,959	11/30/98
USA	5,157,375	Droni, Ze'Ve	Electronic Vehicle Security System	07/637378	1/4/91
USA	5,193,141	Zwem	Vehicular Voice Storage Playback and Broadcasting Device	07/615,212	11/19/90
USA	5,614,883	Dery; Normand, Santerre; Guy Jean; Alain	Automotive opto-electric starter interlock	08/367,799	12/30/94



Country	Patent No.	Inventor	Title	Application Number	Filing Date
USA	5,617,819	Dery Normand	Remote starting system for a vehicle having a diesel engine	08/608,932	2/29/96
USA	5,701,359	Guenther, Leigh	Flat-Panel Speaker	418268	4/6/95
USA	6,557,742	Brunev	Membrane Support System	09/981,401	10/17/01
USA	5,730,409	Baron	Audio Speaker with Integrated Bracket	08/583,586	1/5/96
USA	6,694,530	Maloney	Goggle strap alignment and fastening guide for motorcycle type helmet	10/163,898	06/04/2002
USA	N/A	DiTullo, Wrie, Lumsden, Suskind	Low Profile Flat Panel Speaker System	61/865,531	08/13/2012
USA	N/A	Simmons	Smartphone Based Passive Keyless Entry System	61/865,514	08/13/2013
USA	N/A	Simmons	Multi-level Vehicle Remote Start Authentication Method & System	61/864,425	08/09/2013
USA	N/A	Nielsen, DiTullo, Chae	Headphone with a Retractable Microphone	61/765,893	02/18/2013
USA	N/A		Vehicle Inventory and Customer Management System and Method	61/749,369	01/06/2013
USA	N/A		Headphones with Cord Management System	61/736,802	12/13/2012
USA	N/A		Tribeca Sound Bar	29/464,143	08/13/2013
USA	N/A		Tribeca Floor Subwoofer	29/464,140	08/13/2013
USA	N/A		Camden Square Speaker	29/456,060	05/28/2013
USA	N/A		N1 Speaker	29/456,055	05/28/2013
USA	N/A		Cube Speaker	29/456,048	05/28/2013
USA	N/A		Personalized Modular Headphone System and Method	14/093,368	11/29/2013
USA	N/A		Vehicle Remote Start Method and System	14/087,951	11/22/2013
USA	N/A		Acoustic Surround Immersion Control System and Method	14/031,032	09/18/2013

# ABANDONED PATENT APPLICATIONS

APPLICATION NUMBERS: 2006/0238314, 2006/0238337, 2006/0239018, 2007/0101039, 2007/0153139, 2007/0263348, 2008/0110733, 2008/011555