TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM532179

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT		07/16/2019	National Banking Association: UNITED STATES

RECEIVING PARTY DATA

Name:	VISHAY DALE ELECTRONICS, INC.
Street Address:	1122 23RD STREET
City:	COLUMBUS
State/Country:	NEBRASKA
Postal Code:	68601-3647
Entity Type:	Corporation: DELAWARE
Name:	VISHAY INTERTECHNOLOGY, INC.
Street Address:	63 LANCASTER AVENUE
City:	MALVERN
State/Country:	PENNSYLVANIA
Postal Code:	19355
Entity Type:	Corporation: DELAWARE
Name:	SILICONIX INCORPORATED
Street Address:	2585 JUNCTION AVENUE
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134
Entity Type:	Corporation: DELAWARE
Name:	VISHAY SILICONIX TECHNOLOGY C.V.
Street Address:	2585 JUNCTION AVENUE
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134
Entity Type:	Corporation: DELAWARE
Name:	VISHAY SPRAGUE, INC.
Street Address:	2813 WEST ROAD
City:	BENNINGTON

OP $1140.00 1383220

State/Country:	VERMONT
Postal Code:	05201
Entity Type:	Corporation: DELAWARE
Name:	VISHAY THIN FILM, LLC
Street Address:	2813 WEST ROAD
City:	BENNINGTON
State/Country:	VERMONT
Postal Code:	05201
Entity Type:	Limited Liability Company: DELAWARE

PROPERTY NUMBERS Total: 45

Property Type	Number	Word Mark
Registration Number:	1383220	DALE
Registration Number:	3394307	IHLP
Registration Number:	2074628	POWER METAL STRIP
Registration Number:	3431324	WSL
Registration Number:	3264991	WSR
Registration Number:	2602606	FUNCTIONPAK
Registration Number:	1979712	QUICK-NET
Registration Number:	1790212	VISHAY
Registration Number:	1015163	VISHAY
Registration Number:	837476	VISHAY
Registration Number:	3530560	VISHAY
Registration Number:	1692580	VISHAY
Registration Number:	3530559	VISHAY
Registration Number:	1687032	VISHAY
Registration Number:	1689517	VISHAY INTERTECHNOLOGY
Registration Number:	3256028	TMBS
Registration Number:	2696001	CHIPFET
Registration Number:	1727230	LITTLE FOOT
Registration Number:	2701037	MICRO FOOT
Registration Number:	2990388	POLARPAK
Registration Number:	3732445	POWERPAIR
Registration Number:	3087499	SI
Registration Number:	3469285	SKYFET
Registration Number:	2035560	TRENCHFET
Registration Number:	2672428	POWERPAK
Registration Number:	3759042	TURBOFET
Registration Number:	3073909	FLIPKY

Property Type	Number	Word Mark
Registration Number:	1753724	HEXFRED
Registration Number:	3704345	POWERTAB
Registration Number:	3662946	FRED PT
Registration Number:	3256019	HVARC GUARD
Registration Number:	3526660	MICROTAN
Registration Number:	858837	SPECTROL
Registration Number:	859975	SPRAGUE
Registration Number:	1492049	SUPERTAN
Registration Number:	1380243	TANTAMOUNT
Registration Number:	1238139	VITRAMON
Registration Number:	839908	VITRAMON
Registration Number:	3762167	SPRAGUE
Registration Number:	2126097	CBTV
Serial Number:	77953395	VISHAY PRECISION GROUP
Serial Number:	77952995	VISHAY PRECISION GROUP
Serial Number:	77900236	MICROBUCK
Serial Number:	77896876	VRPOWER
Serial Number:	77945647	THUNDERFET

CORRESPONDENCE DATA

Fax Number: 8004947512

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: 202-370-4756
Email: ipteam@cogencyglobal.com
Correspondent Name: Jay daSilva
Address Line 1: 1025 Vermont Ave NW, Suite 1130
Address Line 2: COGENCY GLOBAL INC.
Address Line 4: Washington, D.C. 20005

ATTORNEY DOCKET NUMBER:	1107704 TM REL E
NAME OF SUBMITTER:	Elizabeth Wagenbach
SIGNATURE:	/Elizabeth Wagenbach/
DATE SIGNED:	07/17/2019

Total Attachments: 79
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RELEASE OF SECURITY INTEREST IN PATENTS AND TRADEMARKS, dated as of July 16, 2019 (this "Release"), by JPMORGAN CHASE BANK, N.A., as Administrative Agent.

A. Reference is made to (i) the Credit Agreement dated as of December 1, 2010, as amended and restated as of August 8, 2013, as further amended and restated as of December 10, 2015 (as further amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among Vishay Intertechnology, Inc., a Delaware corporation (the "Borrower"), the Subsidiary Borrowers from time to time party thereto, the Lenders from time to time party thereto and JPMorgan Chase Bank, N.A., as administrative agent, (ii) the Guarantee and Collateral Agreement dated as of December 1, 2010, as amended by that certain Reaffirmation Agreement dated as of August 8, 2013 among the Borrower, the subsidiaries of the Borrower party thereto and JPMorgan Chase Bank, N.A., as administrative agent (as further amended, restated, supplemented or otherwise modified from time to time, the "Collateral Agreement"), among the Borrower, the Domestic Subsidiary Loan Parties from time to time party thereto and JPMorgan Chase Bank, N.A., as administrative agent (in such capacity, the "Administrative Agent"), and (iii) the Patent and Trademark Security Agreements dated as of December 1, 2010, August 8, 2013 and December 10, 2015, in each case, among the Borrower, the Domestic Subsidiaries of the Borrower from time to time party thereto (together with the Borrower, the "Grantors") and the Administrative Agent (the documents set forth in clauses (ii) and (iii) above, the "Security Agreements" and each a "Security Agreement").

B. Pursuant to the Security Agreements, the Grantors granted to the Administrative Agent, for the benefit of the Secured Parties, a security interest in all right, title and interest of the Grantors in, among other things, the patents and trademarks set forth on Schedule I hereto (the "Patent and Trademark Collateral"), which security interests were recorded with the United States Patent and Trademark Office on (i) January 14, 2011 at Reel/Frame 004453/0500, (ii) January 21, 2011 at Reel/Frame 025675/0001, (iii) September 5, 2013 at Reel/Frame 031170/0001, (iv) September 5, 2013 at Reel/Frame 5105/0896, (v) December 10, 2015 at Reel/Frame 037261/0616 and (vi) December 10, 2015 at Reel/Frame 5686/0277.

C. Pursuant to the Payoff Letter dated as of June 5, 2019, between the Borrower and the Administrative Agent, the Administrative Agent agreed to release any and all security interests it may have in the Patent and Trademark Collateral pursuant to the Security Agreements.

Accordingly, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Administrative Agent, on behalf of the Secured Parties, does hereby state as follows:

SECTION 1. Terms. Each capitalized term used but not otherwise defined herein shall have the meaning specified in the Credit Agreement or the applicable Security Agreement.

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SECTION 2. Release. The Administrative Agent, on behalf of itself, the Secured Parties and their permitted successors and assigns, does hereby terminate, release, relinquish and discharge its and their security interest granted under the Security Agreements in the Patent and Trademark Collateral and any right, title or interest granted under the Security Agreements it has in the Patent and Trademark Collateral shall hereby cease and become void. This Release is made without representation or warranty, express or implied, of any kind, by, or recourse to, the Administrative Agent or any other Secured Party.

THIS RELEASE SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF NEW YORK.

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

JPMORGAN CHASE BANK, N.A., as Administrative Agent,

by _____

Name: Douglas P Panchal
Title: Executive Director

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SCHEDULE I

[See attached]

Patent and Trademark Collateral

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Patents and Trademarks of Vishay Dale Electronics, Inc.

(a) **U.S. Patent Registrations and Patent Applications**

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/963,224	6,204,744	HIGH CURRENT, LOW PROFILE INDUCTOR	ISSUED	11/3/1997	3/20/2001	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/547,155	6,460,244	METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	ISSUED	4/11/2000	10/8/2002	Vishay Dale Electronics, Inc.	025675/0001
UTL	08/350,960	5,604,477	SURFACE MOUNT RESISTOR AND METHOD FOR MAKING SAME	ISSUED	12/7/1994	2/18/1997	Dale Electronics, Inc.	025675/0001
UTL	07/860,403	5,287,083	BULK METAL CHIP RESISTOR	ISSUED	3/30/1992	2/15/1994	Dale Electronics, Inc.	025675/0001
UTI	07/881,856	5,302,932	MONOLYTHIC MULTILAYER CHIP INDUCTOR AND METHOD FOR MAKING SAME	ISSUED	5/12/1992	4/12/1994	Dale Electronics, Inc.	025675/0001
UTL	08/665,788	5,986,533	MONOLITHIC THICK FILM INDUCTOR METHOD FOR MAKING SAME	ISSUED	6/18/1996	11/16/1999	Dale Electronics, Inc.	025675/0001
UTL	08/881,480	5,970,604	METHOD OF MAKING A MONOLITHIC THICK FILM INDUCTOR	ISSUED	6/24/1997	10/26/1999	Dale Electronics, Inc.	025675/0001
UTL	08/936,193	5,922,514	THICK FILM LOW VALUE HIGH FREQUENCY INDUCTOR, AND METHOD OF MAKING THE SAME	ISSUED	9/17/1997	7/13/1999	Dale Electronics, Inc.	025675/0001

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/080,494	6,215,387	THICK FILM LOW VALUE HIGH FREQUENCY INDUCTOR AND METHOD OF MAKING THE SAME	ISSUED	5/18/1998	4/10/2001	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/448,676	6,201,215	THE METHOD OF MAKING A THICK FILM LOW VALUE HIGH FREQUENCY INDUCTOR	ISSUED	11/24/1999	3/13/2001	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/834,123	6,366,192	STRUCTURE OF MAKING A THICK FILM LOW VALUATE HIGH FREQUENCY INDUCTOR	ISSUED	4/12/2001	4/2/2002	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/247,490	5,999,085	SURFACE MOUNTED FOUR TERMINAL RESISTOR	ISSUED	2/10/1999	12/7/1999	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/271,748	6,198,375	INDUCTOR COIL STRUCTURE	ISSUED	3/18/1999	3/6/2001	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/546,859	6,449,829	METHOD FOR MAKING INDUCTOR COIL STRUCTURE	ISSUED	4/10/2000	9/17/2002	Vishay Dale Electronics, Inc.	025675/0001
UTL	10/244,777	6,946,944	INDUCTOR COIL AND METHOD FOR MAKING SAME	ISSUED	9/16/2002	9/20/2005	Vishay Dale Electronics, Inc.	025675/0001
UTL	11/038,880	7,034,645	INDUCTOR COIL AND METHOD FOR MAKING SAME	ISSUED	1/20/2005	4/25/2006	Vishay Dale Electronics, Inc.	025675/0001
UTL	11/409,651	7,221,249	INDUCTOR COIL	ISSUED	4/24/2006	5/22/2007	Vishay Dale Electronics, Inc.	025675/0001
UTL	11/609,165	7,263,761	METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	ISSUED	12/11/2006	9/4/2007	Vishay Dale Electronics, Inc.	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	11/782,020	7,345,562	METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR.	ISSUED	7/24/2007	3/18/2008	Vishay Dale Electronics, Inc.	025675/0001
UTL	12/013,725		METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	PUBLISHED	1/14/2008		Vishay Dale Electronics, Inc.	025675/0001
UTL	12/535,757		METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	PUBLISHED	8/5/2009		Vishay Dale Electronics, Inc.	025675/0001
UTL	09/471,622	6,401,329	METHOD FOR MAKING OVERLAY SURFACE MOUNT RESISTOR	ISSUED	12/21/1999	6/11/2002	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/715,252	6,441,718	OVERLAY SURFACE MOUNT RESISTOR	ISSUED	11/17/2000	8/27/2002	Vishay Dale Electronics, Inc.	025675/0001
UTL	10/078,311	6,725,529	METHOD FOR MAKING OVERLAY SURFACE MOUNT RESISTOR.	ISSUED	2/18/2002	4/27/2004	Vishay Dale Electronics, Inc.	025675/0001
UTL	10/797,866	6,901,655	METHOD FOR MAKING OVERLAY SURFACE MOUNT RESISTOR	ISSUED	3/10/2004	6/7/2005	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/471,617	6,510,605	METHOD FOR MAKING FORMED SURFACE MOUNT RESISTOR	ISSUED	12/21/1999	1/28/2003	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/474,448	6,181,234	MONOLYTHIC METAL STRIP RESISTOR WITH HEAT SINKING WINGS	ISSUED	12/29/1999	1/30/2001	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/774,854	6,587,025	SIDE-BY-SIDE COIL INDUCTOR	ISSUED	1/31/2001	7/1/2003	Vishay Dale Electronics, Inc.	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/829,169	7,214,295	METHOD FOR TANTALUM PENTOXIDE MOISTURE BARRIER IN FILM RESISTORS	ISSUED	4/9/2001	5/8/2007	Vishay Dale Electronics, Inc.	025675/0001
UTL	10/079,010	7,170,389	APPARATUS FOR TANTALUM PENTOXIDE MOISTURE BARRIER IN FILM RESISTORS	ISSUED	2/19/2002	1/30/2007	Vishay Dale Electronics, Inc.	025675/0001
UTL	09/811,844	7,038,572	POWER CHIP RESISTOR	ISSUED	3/19/2001	5/2/2006	Vishay Dale Electronics, I.nc.	025675/0001
UTL	10/441,649	7,102,484	HIGH POWER RESISTOR HAVING AN IMPROVED OPERATING TEMPERATURE RANGE AND METHOD OF MAKING SAME	ISSUED	5/20/2003	9/5/2006	Vishay Dale Electronics, Inc.	025675/0001
UTL	10/744,846	6,925,704	METHOD FOR MAKING HIGH POWER RESISTOR HAVING IMPROVED OPERATING TEMPERATURE RANGE	ISSUED	12/23/2003	8/9/2005	Vishay Dale Electronics, Inc.	025675/0001
UTL	11/123,508	7,042,328	HIGH POWER RESISTOR HAVING AN IMPROVED OPERATING TEMPERATURE RANGE	ISSUED	5/5/2005	5/9/2006	Vishay Dale Electronics, Inc.	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	11/066,865	7,190,252	SURFACE MOUNT ELECTRICAL RESISTOR WITH THERMALLY CONDUCTIVE, ELECTRICALLY INSULATIVE FILLER AND METHOD FOR USING SAME	ISSUED	2/25/2005	3/13/2007	Vishay Dale Electronics, Inc.	025675/0001
UTL	11/380,293		FLUX CHANNELED, HIGH CURRENT INDUCTOR	PUBLISHED	4/26/2006		Vishay Dale Electronics, Inc.	025675/0001
UTL	11/535,758		INDUCTOR WITH THERMALLY STABLE RESISTANCE	PUBLISHED	9/27/2006		Vishay Dale Electronics, Inc.	025675/0001
UTL	11/862,572		POWER RESISTOR.	PUBLISHED	9/27/2007		Vishay Dale Electronics, Inc.	025675/0001
UTL	12/134,240		HIGH POWERED INDUCTORS USING A. MAGNETIC BIAS	PUBLISHED	6/6/2008		Vishay Dale Electronics, Inc.	025675/0001
UTL	12/026,939		RESISTOR AND METHOD FOR MAKING SAME	PUBLISHED	2/6/2008		Vishay Dale Electronics, Inc.	025675/0001
UTL	12/114,057		HIGHLY COUPLED INDUCTOR	PUBLISHED	5/2/2008		Vishay Dale Electronics, Inc.	025675/0001
UTL	12/205,197		RESISTOR AND METHOD FOR MAKING SAME	PUBLISHED	9/5/2008		Vishay Dale Electronics, Inc.	025675/0001
UTL	12/536,792		METAL STRIP RESISTOR FOR MITIGATING EFFECTS OF THERMAL EMF	PUBLISHED	8/6/2009		Vishay Dale Electronics, Inc.	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	12/874,514		RESISTOR WITH TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) COMPENSATION	PENDING	9/2/2010		Vishay Dale Electronics, Inc.	025675/0001
UTL	12/650,079		SURFACE MOUNT RESISTOR WITH TERMINALS FOR HIGH POWER DISSIPATION AND METHOD FOR MAKING SAME	PENDING	12/30/2009		Vishay Dale Electronics, Inc.	025675/0001
PRV	61/359,000		RESISTOR WITH TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) COMPENSATION	PENDING	6/28/2010		Vishay Dale Electronics, Inc.	025675/0001
PRV	61/290,429		SURFACE MOUNT RESISTOR WITH TERMINALS FOR HIGH POWER DISSIPATION AND METHOD FOR MAKING SAME	PENDING	12/28/2009		Vishay Dale Electronics, Inc.	025675/0001
UTL	13/689,928		SURFACE MOUNT RESISTOR WITH TERMINALS FOR HIGH POWER DISSIPATION AND METHOD FOR MAKING SAME	PENDING	11/30/2012		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/109,576		METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	PENDING	5/17/2011		Vishay Dale Electronics, Inc.	031170/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	13/127,838		FOUR-TERMINAL RESISTOR WITH FOUR RESISTORS AND ADJUSTABLE TEMPERATURE COEFFICIENT OF RESISTANCE	PENDING	5/5/2011		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/213,877		HIGH POWERED INDUCTORS USING A MAGNETIC BIAS	PENDING	8/19/2011		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/462,958		HEAT SPREADER FOR ELECTRICAL COMPONENTS	PENDING	5/1/2012		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/493,402		RESISTOR WITH TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) COMPENSATION	PENDING	6/11/2012		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/569,721		RESISTOR AND METHOD FOR MAKING SAME	PENDING	8/8/2012		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/600,770		HIGHLY COUPLED INDUCTOR	PENDING	8/31/2012		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/720,618		METHOD FOR MAKING INDUCTOR COIL STRUCTURE	PENDING	12/19/2012		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/750,404		INTEGRATED CIRCUIT ELEMENT AND ELECTRONIC CIRCUIT FOR LIGHT EMITTING DIODE APPLICATIONS	PENDING	1/25/2013		Vishay Dale Electronics, Inc.	031170/0001

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REEL: 006695 FRAME: 0237

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	13/750,762		LOW PROFILE HIGH CURRENT COMPOSITE TRANSFORMER	PENDING	1/25/2013		Vishay Dale Electronics, Inc.	031170/0001
UTL	13/768,039		INDUCTOR WITH THERMALLY STABLE RESISTANCE	PENDING	2/15/2013		Vishay Dale Electronics, Inc.	031170/0001
PRV	61/591,018		INTEGRATED CIRCUIT ELEMENT AND ELECTRONIC CIRCUIT FOR LIGHT EMITTING DIODE APPLICATIONS	PENDING	1/26/2012		Vishay Dale Electronics, Inc.	031170/0001
PRV	61/751,562		WIRELESS SIDE CHARGING	PENDING	1/11/2013		Vishay Dale Electronics, Inc.	031170/0001
PRV	61/752,278		ELECTRONIC MODULE AND METHOD FOR MAKING SAME	PENDING	1/14/2013		Vishay Dale Electronics, Inc.	031170/0001
UTL	12/134,240	8,004,379	HIGH POWERED INDUCTORS USING A MAGNETIC BIAS	ISSUED	6/6/2008	8/23/2011	Vishay Dale Electronics, Inc.	031170/0001
UTL	13/096,715	8,258,907	HIGHLY COUPLED INDUCTOR	ISSUED	4/28/2011	9/4/2012	Vishay Dale Electronics, Inc.	031170/0001
UTL	12,950,177	8,319,598	POWER RESISTOR	ISSUED	11/19/2010	11/27/2012	Vishay Dale Electronics, Inc.	031170/0001
UTL	13/051,585	8,344,843	RESISTOR AND METHOD FOR MAKING SAME	ISSUED	3/18/2011	1/1/2013	Vishay Dale Electronics, Inc.	031170/0001
UTL	13/198,274	8,378,772	INDUCTOR WITH THERMALLY STABLE RESISTANCE	ISSUED	8/4/2011	2/19/2013	Vishay Dale Electronics, Inc.	031170/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/448,676	6,201,215	THE METHOD OF MAKING A THICK FILM LOW VALUE HIGH FREQUENCY INDUCTOR	ISSUED	11/24/1999	3/13/2001	Vishay Dale Electronics, Inc.	037261/0616
UTL	09/247,490	5,999,085	SURFACE MOUNTED FOUR TERMINAL RESISTOR	ISSUED	2/10/1999	12/7/1999	Vishay Dale Electronics, Inc.	037261/0616
UTL	09/271,748	6,198,375	INDUCTOR COIL STRUCTURE	ISSUED	3/18/1999	3/6/2001	Vishay Dale Electronics, Inc.	037261/0616
UTL	09/546,859	6,449,829	METHOD FOR MAKING INDUCTOR COIL STRUCTURE	ISSUED	4/10/2000	9/17/2002	Vishay Dale Electronics, Inc.	037261/0616
UTL	10/244,777	6,946,944	INDUCTOR COIL AND METHOD FOR MAKING SAME	ISSUED	9/16/2002	9/20/2005	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/038,880	7,034,645	INDUCTOR COIL AND METHOD FOR MAKING SAME	ISSUED	1/20/2005	4/25/2006	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/409,651	7,221,249	INDUCTOR COIL	ISSUED	4/24/2006	5/22/2007	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/609,165	7,263,761	METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	ISSUED	12/11/2006	9/4/2007	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/782,020	7,345,562	METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	ISSUED	7/24/2007	3/18/2008	Vishay Dale Electronics, Inc.	037261/0616
UTL	12/013,725	7,921,546	METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	ISSUED	1/1/14/2008	4/12/2011	Vishay Dale Electronics, Inc.	037261/0616
UTL	12/535,757	7.986,207	METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	ISSUED	8/5/2009	7/26/2011	Vishay Dale Electronics, Inc.	037261/0616

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/471,622	6,401,329	METHOD FOR MAKING OVERLAY SURFACE MOUNT RESISTOR	ISSUED	12/21/1999	6/11/2002	Vishay Dale Electronics, Inc.	037261/0616
UTL	09/715,252	6,441,718	OVERLAY SURFACE MOUNT RESISTOR	ISSUED	11/17/2000	8/27/2002	Vishay Dale Electronics, Inc.	037261/0616
UTL	10/078,311	6,725,529	METHOD FOR MAKING OVERLAY SURFACE MOUNT RESISTOR	ISSUED	2/18/2002	4/27/2004	Vishay Dale Electronics, Inc.	037261/0616
UTL	10/797,866	6,901,655	METHOD FOR MAKING OVERLAY SURFACE MOUNT RESISTOR	ISSUED	3/10/2004	6/7/2005	Vishay Dale Electronics, Inc.	037261/0616
UTL	09/471,617	6,510,605	METHOD FOR MAKING FORMED SURFACE MOUNT RESISTOR	ISSUED	12/21/1999	1/28/2003	Vishay Dale Electronics, Inc.	037261/0616
UTL	10/079,010	7,170,389	APPARATUS FOR TANTALUM PENTOXIDE MOISTURE BARRIER IN FILM RESISTORS	ISSUED	2/19/2002	1/30/2007	Vishay Dale Electronics, Inc.	037261/0616
UTL	09/811,844	7,038,572	POWER CHIP RESISTOR	ISSUED	3/19/2001	5/2/2006	Vishay Dale Electronics, Inc.	037261/0616
UTL	10/441,649	7,102,484	HIGH POWER RESISTOR HAVING AN IMPROVED OPERATING TEMPERATURE RANGE AND METHOD OF MAKING SAME	ISSUED	5/20/2003	9/5/2006	Vishay Dale Electronics, Inc.	037261/0616

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REEL: 006695 FRAME: 0240

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/744,846	6,925,704	METHOD FOR MAKING HIGH POWER RESISTOR HAVING IMPROVED OPERATING TEMPERATURE RANGE	ISSUED	12/23/2003	8/9/2005	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/123,508	7,042,328	HIGH POWER RESISTOR HAVING AN IMPROVED OPERATING TEMPERATURE RANGE	ISSUED	5/5/2005	5/9/2006	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/066,865	7,190,252	SURFACE MOUNT ELECTRICAL RESISTOR WITH THERMALLY CONDUCTIVE, ELECTRICALLY INSULATIVE FILLER AND METHOD FOR USING SAME	ISSUED	2/25/2005	3/13/2007	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/535,758	8,018,310	INDUCTOR WITH THERMALLY STABLE RESISTANCE	ISSUED	9/27/2006	9/13/2011	Vishay Dale Electronics, Inc.	037261/0616
UTL	11/862,572		POWER RESISTOR	PUBLISHED	9/27/2007		Vishay Dale Electronics, Inc.	037261/0616
UTL	12/026,939		RESISTOR AND METHOD FOR MAKING SAME	ISSUED	2/6/2008	3/22/2011	Vishay Dale Electronics, Inc.	037261/0616
UTL	12/205,197	8,242,878	RESISTOR AND METHOD FOR MAKING SAME	ISSUED	9/5/2008	8/14/2012	Vishay Dale Electronics, Inc.	037261/0616

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	12/536,792	8,248,202	METAL STRIP RESISTOR FOR MITIGATING EFFECTS OF THERMAL EMF	ISSUED	8/6/2009	8/21/2012	Vishay Dale Electronics, Inc.	037261/0616
UTL	12/874,514	8,198,977	RESISTOR WITH TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) COMPENSATION	ISSUED	9/2/2010	6/12/2012	Vishay Dale Electronics, Inc.	037261/0616
UTL	12/650,079	8,325,007	SURFACE MOUNT RESISTOR WITH TERMINALS FOR HIGH POWER DISSIPATION AND METHOD FOR MAKING SAME	ISSUED	12/30/2009	12/4/2012	Vishay Dale Electronics, Inc.	037261/0616
UTL	13/051,585	8,344,843	RESISTOR AND METHOD FOR MAKING SAME	ISSUED	3/18/2011	1/1/2013	Vishay Dale Electronics, Inc.	037261/0616
UTL	13/127,838	8,581,687	FOUR-TERMINAL RESISTOR WITH FOUR RESISTORS AND ADJUSTABLE TEMPERATURE COEFFICIENT OF RESISTANCE	ISSUED	5/5/2011	11/12/2013	Dale Electronics, Inc.	037261/0616
UTL	13/109,576		METHOD FOR MAKING A HIGH CURRENT LOW PROFILE INDUCTOR	PENDING	5/17/2011		Vishay Dale Electronics, Inc.	037261/0616
UTL	13/198,274	8,378,772	INDUCTOR WITH THERMALLY STABLE RESISTANCE	ISSUED	8/4/2011	2/19/2013	Vishay Dale Electronics, Inc.	037261/0616
UTL	13/213,877		HIGH POWERED INDUCTORS USING A MAGNETIC BIAS	PENDING	8/19/2011		Vishay Dale Electronics, Inc.	037261/0616

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
PRV	61/591,018		INTEGRATED CIRCUIT ELEMENT AND ELECTRONIC CIRCUIT FOR LIGHT EMITTING DIODE APPLICATIONS	PENDING	1/26/2012		Vishay Dale Electronics, Inc.	037261/0616
UTL	13/493,402	8,525,637	RESISTOR WITH TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) COMPENSATION	ISSUED	6/11/2012	9/3/2013	Vishay Dale Electronics, Inc.	037261/0616
UTL	13/462,958	9,001,512	HEAT SPREADER FOR ELECTRICAL COMPONENTS	ISSUED	5/3/2012	4/7/2015	Vishay Dale Electronics, LLC	037261/0616
UTL	13/600,770		HIGHLY COUPLED INDUCTOR	PENDING	8/31/2012		Vishay Dale Electronics, Inc.	037261/0616
UTL	13/569,721	8,686,828	RESISTOR AND METHOD FOR MAKING SAME	ISSUED	8/8/2012	4/1/2014	Dale Electronics, Inc.	037261/0616
UTL	12,950,177	8,319,598	POWER RESISTOR	ISSUED	11/19/2010	11/27/2012	Vishay Dale Electronics, Inc.	037261/0616
UTL	13/720,618		METHOD FOR MAKING INDUCTOR COIL STRUCTURE	PENDING	12/19/2012		Vishay Dale Electronics, Inc.	037261/0616
UTL	13,689,928		SURFACE MOUNT RESISTOR WITH TERMINALS FOR HIGH POWER DISSIPATION AND METHOD FOR MAKING SAME	PENDING	11/30/2012		Vishay Dale Electronics, Inc.	037261/0616
UTL	13/768,039	8,975,994	INDUCTOR WITH THERMALLY STABLE RESISTANCE	ISSUED	2/15/2013	3/10/2015	Dale Electronics, Inc.	037261/0616

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	13/750,404		INTEGRATED CIRCUIT ELEMENT AND ELECTRONIC CIRCUIT FOR LIGHT EMITTING DIODE APPLICATIONS	PENDING	1/25/2013		Vishay Dale Electronics, Inc.	037261/0616
UTL	13/750,762		LOW PROFILE HIGH CURRENT COMPOSITE TRANSFORMER	PENDING	1/25/2013		Vishay Dale Electronics, Inc.	037261/0616
PRV	61/752,278		ELECTRONIC MODULE AND METHOD FOR MAKING SAME	PENDING	1/14/2013		Vishay Dale Electronics, Inc.	037261/0616
UTL	14/015,488	8,878,643	RESISTOR WITH TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) COMPENSATION	ISSUED	8/30/2013	11/4/2014	Vishay Dale Electronics, Inc.	037261/0616
UTL	14/228,780		RESISTOR AND METHOD FOR MAKING SAME	PENDING	3/28/2014		Dale Electronics, Inc.	037261/0616
UTL	14/203,234		RESISTOR AND METHOD OF MANUFACTURE	PENDING	3/10/2014		Vishay-Dale	037261/0616
UTL	13/730,155	8,730,003	RESISTOR AND METHOD FOR MAKING SAME	ISSUED	12/28/2012	5/20/2014	Dale Electronics, Inc.	037261/0616
UTL	14/242,982		MAGNETIC COMPONENTS AND METHODS FOR MAKING SAME	PENDING	4/2/2014		Dale Electronics, Inc.	037261/0616
UTL	14/280,230		RESISTOR AND METHOD FOR MAKING SAME	PENDING	5/16/2014		Dale Electronics, Inc.	037261/0616

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	14/287,883		EDGE-WOUND RESISTOR, RESISTOR ASSEMBLY, AND METHOD OF MAKING SAME	PENDING	5/27/2014		Dale Electronics, Inc.	037261/0616
Design	29/491,946		EDGE-WOUND RESISTOR	PENDING	5/27/2014		Dale Electronics, Inc.	037261/0616
UTL	13/725,018	8,823,483	POWER RESISTOR WITH INTEGRATED HEAT SPREADER	ISSUED	12/21/2012	9/2/2014	Dale Electronics, Inc.	037261/0616
UTL	14/473,118		POWER RESISTOR WITH INTEGRATED HEAT SPREADER	PENDING	8/29/2014		Dale Electronics, Inc.	037261/0616
UTL	14/531,505		RESISTOR WITH TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) COMPENSATION	PENDING	11/3/2014		Vishay Dale Electronics, Inc.	037261/0616
UTL	14/563,560		THERMALLY SPRAYED THIN FILM RESISTOR AND METHOD OF MAKING	PENDING	12/8/2014		Vishay Dale Electronics, Inc.	037261/0616
Prov	62/202,580		MOLDED PASSIVE COMPONENT FOR HIGH VOLTAGE APPLICATIONS	PENDING	8/7/2015		Dale Electronics, Inc.	037261/0616

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(b) **U.S. Trademarks and Trademark Applications**

* Some of the trademarks listed below have been filed with the USPTO under Dale Electronics, Inc. or Vishay Dale Electronics, Inc. Dale Electronics, Inc. changed its name to Vishay Dale Electronics, Inc. on June 4, 1997 and to Vishay Dale Electronics, LLC on March 26, 2015.

Trademark	Legal Owner	Country	Reg.#	Reg. Date	Reel/Frame
DALE	Vishay Dale Electronics, Inc.	United States	1383220	2/18/1986	004453/0500
IHLP	Vishay Dale Electronics, Inc.	United States	3394307	3/11/2008	004453/0500
POWER METAL STRIP	Vishay Dale Electronics, Inc.	United States	2074628	6/24/1997	004453/0500
WSL	Vishay Dale Electronics, Inc.	United States	3431324	5/20/2008	004453/0500
WSR	Vishay Dale Electronics, Inc.	United States	3264991	7/17/2007	004453/0500
DALE	Vishay Dale Electronics, Inc.	United States	1383220	2/18/1986	5686/0277
IHLP	Vishay Dale Electronics, Inc.	United States	3394307	3/11/2008	5686/0277
POWER METAL STRIP	Vishay Dale Electronics, Inc.	United States	2074628	6/24/1997	5686/0277
WSL	Vishay Dale Electronics, Inc.	United States	3431324	5/20/2008	5686/0277
WSR	Vishay Dale Electronics, Inc.	United States	3264991	7/17/2007	5686/0277

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REEL: 006695 FRAME: 0247

Patents and Trademarks of Vishay Intertechnology, Inc.

(a) **U.S. Patent Registrations and Patent Applications**

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/568,937	RE39,660	SURFACE MOUNTED FOUR TERMINAL RESISTOR	ISSUED	5/11/2000	5/29/2007	Vishay Intertechnology, Inc.	025675/0001
UTE	09/765,901	6,680,668	METHOD AND APPARATUS FOR FAST HEAT RISE RESISTOR USING RESISTIVE FOIL WITH FOIL WITH PHOTOLITHOGRAPHIC PRODUCTION	ISSUED	1/19/2001	1/20/2004	Vishay Intertechnology, Inc.	025675/0001
UTL	10/079,085	6,671,945	METHOD FOR MAKING A RESISTOR USING RESISTIVE FOIL	ISSUED	2/20/2002	1/6/2004	Vishay Intertechnology, Inc.	025675/0001
UTL	10/964,357	7,247,250	METHOD FOR MANUFACTURING A FAST HEAT RISE RESISTOR	ISSUED	10/13/2004	7/24/2007	Vishay Intertechnology, Inc.	025675/0001
UTI	09/810,206	6,880,234	METHOD FOR THIN FILM NTC THERMISTOR	ISSUED	3/16/2001	4/19/2005	Vishay Intertechnology, Inc.	025675/0001
UTI	09/820,064	6,669,435	PRECISION RESISTOR TUBE FEEDER	ISSUED	3/28/2001	12/30/2003	Vishay Intertechnology, Inc.	025675/0001
UTL	10/002,868	6,873,028	SURGE CURRENT CHIP RESISTOR	ISSUED	11/15/200	3/29/2005	Vishay Intertechnology, Inc.	025675/0001
UTL	10/233,184	6,727,798	FLIP CHIP RESISTOR AND ITS MANUFACTURING METHOD	ISSUED	9/3/2002	4/27/2004	Vishay Intertechnology, Inc.	025675/0001

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/440,941	7,089,652	METHOD OF MANUFACTURING FLIP CHIP RESISTOR	ISSUED	5/19/2003	8/15/2006	Vishay Intertechnology, Inc.	025675/0001
UTL	10/304,261	6,892,443	METHOD OF MANUFACTURING A RESISTOR	ISSUED	11/25/2002	5/17/2005	Vishay Intertechnology, Inc.	025675/0001
UTL	10/762,609	7,154,370	HIGH PRECISION POWER RESISTORS	ISSUED	1/22/2004	12/26/2006	Vishay Intertechnology, Inc.	025675/0001
UTL	10/967,883	7,278,201	METHOD OF MANUFACTURING A RESISTOR	ISSUED	10/18/2004	10/9/2007	Vishay Intertechnology, Inc.	025675/0001
UTL	11/050,077	7,394,845	METHOD FOR INTERWOVEN SPREADING CODES	ISSUED	2/3/2005	7/1/2008	Vishay Intertechnology, Inc.	025675/0001
UTL	09/661,483	6,538,300	PRECISION HIGH-FREQUENCY CAPACITOR FORMED ON SEMICONDUCTOR SUBSTRATE	ISSUED	9/14/2000	3/25/2003	Vishay Intertechnology, Inc.	025675/0001
UTL	10/208,121	6,621,142	PRECISION HIGH-FREQUENCY CAPACITOR FORMED ON SEMICONDUCTOR SUBSTRATE	ISSUED	7/29/2002	9/16/2003	Vishay Intertechnology Inc.	025675/0001
UTL	10/208,599	6,621,143	PRECISION HIGH-HIGH-FREQUENCY CAPACITOR ON SEMICONDUCTOR SUBSTRATE	ISSUED	7/29/2001	9/16/2003	Vishay Intertechnology, Inc.	025675/0001

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REEL: 006695 FRAME: 0248

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/395,095	6,271,060	PROCESS OF FABRICATING A CHIP SCALE SURFACE MOUNT PACKAGE FOR. SEMICONDUCTOR DEVICE	ISSUED	9/13/1999	8/7/2001	Vishay Intertechnology, Inc.	025675/0001
UTL	09/395,094	6,316,287	CHIP SCALE SURFACE MOUNT PACKAGES FOR SEMICONDUCTOR DEVICE AND PROCESS OF FABRICATING THE SAME	ISSUED	9/13/1999	11/13/2001	Vishay Intertechnology, Inc.	025675/0001
UTL	09/844,934	6,562,647	CHIP SCALE SURFACE MOUNT PACKAGE FOR SEMICONDUCTOR DEVICE AND PROCESS OF FABRICATING THE SAME	ISSUED	4/26/2001	5/13/2003	Vishay Intertechnology, Inc.	025675/0001
UTL	10/157,584	6,876,061	CHIP SCALE SURFACE MOUNT PACKAGE FOR SEMICONDUCTOR DEVICE AND PROCESS OF FABRICATING THE SAME	ISSUED	5/28/2002	4/5/2005	Vishay Intertechnology, Inc.	025675/0001
UTL	11/415,039	7,426,102	HIGH PRECISION CAPACITOR WITH STANDOFF	ISSUED	5/1/2006	9/16/2008	Vishay Intertechnology, Inc.	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTI	09/688,300	6,970,496	RF MODEM AND COMMUNICATIONS TRANSCEIVER UTILIZING SAW DEVICE, AND PULSE SHAPING	ISSUED	10/13/2000	11/29/2005	Vishay Intertechnology, Inc.	025675/0001
UTL	09/419,824	6,535,545	RF MODEM UTILIZING SAW RESONATOR AND CORRELATOR AND COMMUNICATIONS TRANSCEIVER CONSTRUCTED THEREFROM	ISSUED	10/15/1999	3/18/2003	Vishay Intertechnology, Inc.	025675/0001
UTL	12/030,281		SULFURATION RESISTANT CHIP RESISTOR AND METHOD FOR MAKING SAME	PUBLISHED	2/13/2008		Vishay Intertechnology, Inc.	025675/0001
UTL	12/035,472		SURFACE MOUNTED CHIP RESISTOR WITH FLEXIBLE LEADS	PUBLISHED	2/22/2008		Vishay Intertechnology, Inc.	025675/0001
UTL	09/733,823	6,441,475	CHIP SCALE SURFACE MOUNT PACKAGE FOR SEMICONDUCTOR DEVICE AND PROCESS OF FABRICATING THE SAME	ISSUED	12/8/2000	8/27/2002	Vishay Intertechnology, Inc.	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTI,	11/082,080	7,211,877	CHIP SCALE SURFACE MOUNT PACKAGE FOR SEMICONDUCTOR DEVICE AND PROCESS OF FABRICATING THE SAME	ISSUED	3/15/2005	5/1/2007	Vishay Intertechnology, Inc.	025675/0001
UTL	11/786,328	7,589,396B2	CHIP SCALE SURFACE MOUNT PACKAGE FOR SEMICONDUCTOR DEVICE AND PROCESS OF FABRICATING THE SAME	ISSUED	4/10/2007	9/15/2009	Vishay Intertechnology, Inc.	025675/0001
UTL	10/456,018	7,151,036	PRECISION HIGH-FREQUENCY CAPACITOR FORMED ON SEMICONDUCTOR SUBSTRATE	ISSUED	6/5/2003	12/19/2006	Vishay Intel-technology, Inc.	025675/0001
UTL	11/601,501		PRECISION HIGH-FREQUENCY CAPACITOR FORMED ON SEMICONDUCTOR SUBSTRATE	PENDING	11/16/2006		Vishay Intertechnology, Inc.	025675/0001
UTI	11/966,965		PRECISION HIGH-FREQUENCY CAPACITOR FORMED ON SEMICONDUCTOR SUBSTRATE	PENDING	12/28/2007		Vishay Intertechnology, Inc.	025675/0001

TRADEMARK
REEL: 006695 FRAME: 0251

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	13/592,091		PRECISION HIGH-FREQUENCY CAPACITOR FORMED ON SEMICONDUCTOR SUBSTRATE	PENDING	12/3/2012		Vishay Intertechnology, Inc.	031170/0001
UTL	11/759,523	7,907,090	CERAMIC DIELECTRIC FORMULATION FOR BROAD BAND UHF ANTENNA	ISSUED	6/7/2007	3/15/2011	Vishay Intertechnology, Inc.	031170/0001
UTL	13/075,752	8,324,711	PRECISION HIGH FREQUENCY CAPACITOR FORMED ON SEMICONDUCTOR SUBSTRATE	ISSUED	3/30/2011	12/4/2012	Vishay Intertechnology, Inc.	031170/0001

(b) U.S. Trademarks and Trademark Applications

Trademark	Legal Owner	Country	Reg.#	Reg. Date	Reel/Frame
FUNCTIONPAK	Vishay Intertechnology, Inc.	United States	2602606	7/30/2002	004453/0500
QUICK NET	Vishay Intertechnology, Inc.	United States	1979712	6/11/1996	004453/0500
VISHAY	Vishay Intertechnology, Inc.	United States	1790212	8/31/1993	004453/0500
VISHAY	Vishay Intertechnology, Inc.	United States	1015163	7/8/1975	004453/0500
VISHAY	Vishay Intertechnology, Inc.	United States	837476	10/24/1967	004453/0500
VISHAY	Vishay Intertechnology, Inc.	United States	3530560	11/11/2008	004453/0500
VISHAY (In Middle of Pyramid)	Vishay Intertechnology, Inc.	United States	1692580	6/9/1992	004453/0500
VISHAY (In Middle of Pyramid)	Vishay Intertechnology, Inc.	United States	3530559	11/11/2008	004453/0500
VISHAY (Triangle & Circle Design)	Vishay Intertechnology, Inc.	United States	1687032	5/12/1992	004453/0500
VISHAY INTERTECHNOLOGY	Vishay Intertechnology, Inc.	United States	1689517	5/26/1992	004453/0500

Trademark	Legal Owner	Country	Reg.#	Reg. Date	Reel/Frame
TMBS	Vishay Intertechnology, Inc.	United States	3256028	6/26/2007	004453/0500
VISHAY PRECISION GROUP b&w logo	Vishay Intertechnology, Inc.	United States	77/953,395	3/8/2010	004453/0500
VISHAY PRECISION GROUP color logo	Vishay Intertechnology, Inc.	United States	77/952,995	Filed 3/8/2010	004453/0500

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Patents and Trademarks of Siliconix incorporated

(a) **U.S. Patent Registrations and Patent Applications**

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/047,723	5,410,170	DMOS POWER TRANSISTORS WITH REDUCED NUMBER OF CONTACTS USING INTEGRATED BODY-SOURCE CONNECTIONS	ISSUED	4/14/1993	4/25/1995	Siliconix incorporated	025675/0001
UTL	07/949,288	5,328,866	LOW TEMPERATURE OXIDE LAYER OVER FIELD IMPLANT FIELD IMPLANT MASK	ISSUED	9/21/1992	7/12/1994	Siliconix incorporated	025675/0001
UTL	08/236,299	5,439,842	LOW TEMPERATURE OXIDE LAYER OVER ISSUED FIELD IMPLANT MASK	ISSUED	5/2/1994	8/8/1995	Siliconix incorporated	025675/0001
UTL	08/031,798	5,341,011	SHORT CHANNEL TRENCHED DMOS TRANSISTOR	ISSUED	3/15/1993	8/23/1994	Siliconix incorporated	025675/0001
UTL	08/289,358	5,474,943	METHOD FOR FABRICATING A SHORT CHANNEL TRENCHED DMOS TRANSISTOR	ISSUED	8/11/1994	12/12/1995	Siliconix incorporated	025675/0001
UTL	08/067,373	5,517,379	REVERSE BATTERY PROTECTION DEVICE ISSUED CONTAINING POWER MOSFET	ISSUED	5/26/1993	5/14/1996	Siliconix incorporated	025675/0001

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/067,372	5,414,292	A JUNCTION-ISOLATED FLOATING DIODE	ISSUED	5/26/1993	5/9/1995	Siliconix incorporated	025675/0001
UTL	08/062,504	5,377,094	PUSH-PULL OUTPUT STAGE FOR DRIVING MOTORS WHICH GENERATES AUXILIARY VOLTAGE SUPPLY	ISSUED	5/14/1993	12/27/1994	Siliconix incorporated	025675/0001
UTL	08/062,968	5,455,496	HEAD-RETRACT CIRCUIT FOR MOVING MEDIA STORAGE APPARATUS	ISSUED	5/14/1993	10/3/1995	Siliconix incorporated	025675/0001
UTL	08/062,503	5,508,874	DISCONNECT SWITCH CIRCUIT TO POWER HEAD RETRACT IN HARD DISK DRIVE MEMORIES	ISSUED	5/14/1993	4/16/1996	Siliconix incorporated	025675/0001
UTL	08/062,969	5,459,654	APPARATUS FOR GENERATING POSITIVE AND NEGATIVE SUPPLY RAILS FROM OPERATING MOTOR CONTROL CIRCUIT	ISSUED	5/14/1993	10/17/1995	Siliconix incorporated	025675/0001
UTL	08/367,486	5,665,996	VERTICAL POWER MOSFET HAVING THICK METAL LAYER TO REDUCE DISTRIBUTED RESISTANCE	ISSUED	12/30/1994	9/9/1997	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/779,176	6,066,877	VERTICAL POWER MOSFET HAVING THICK METAL LAYER ISSUED TO REDUCE DISTRIBUTED RESISTANCE	ISSUED	1/6/1997	5/23/2000	Siliconix incorporated	025675/0001
UTL	08/966,553	6,043,125	METHOD OF FABRICATING VERTICAL POWER MOSFET HAVING LOW DISTRIBUTED RESISTANCE	ISSUED	11/10/1997	3/28/2000	Siliconix incorporated	025675/0001
UTL	08/367,388	5,767,546	LATERAL POWER MOSFET HAVING METAL STRAP LAYER TO REDUCE DISTRIBUTED RESISTANCE	ISSUED	12/30/1994	6/16/1998	Siliconix incorporated	025675/0001
UTL	08/907,276	5,945,709	INTEGRATED CIRCUIT DIE HAVING THICK BUS TO USE DISTRIBUTED RESISTANCE	ISSUED	8/6/1997	8/31/1999	Siliconix incorporated	025675/0001
UTL	09/264,602	6,159,841	METHOD OF FABRICATING LATERAL POWER MOSFET HAVING METAL STRAP LAYER TO REDUCE DISTRIBUTED RESISTANCE	ISSUED	3/8/1999	12/12/2000	Siliconix incorporated	025675/0001
UTL	07/697,356	5,386,136	LIGHTLY-DOPED DRAIN MOSFET WITH IMPROVED BREAKDOWN CHARACTERISTICS	ISSUED	5/6/1991	1/31/1995	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/318,027	5,514,608	LIGHTLY-DOPED DRAIN MOSFET WITH IMPROVED BREAKDOWN CHARACTERISTICS	ISSUED	10/4/1994	5/7/1996	Siliconix incorporated	025675/0001
UTL	08/040,684	5,374,843	LIGHTLY-DOPED DRAIN MOSFET WITH IMPROVED BREAKDOWN CHARACTERISTICS	ISSUED	3/31/1993	12/20/1994	Siliconix incorporated	025675/0001
UTL	07/881,589	5,304,831	LOW ON-RESISTANCE POWER MOS TECHNOLOGY	ISSUED	5/12/1992	4/19/1994	Siliconix incorporated	025675/0001
UTL	08/180,265	5,429,964	LOW ON-RESISTANCE POWER MOS TECHNOLOGY	ISSUED	1/12/1994	7/4/1995	Siliconix incorporated	025675/0001
UTL	08/362,674	5,521,409	STRUCTURE AND FABRICATION OF POWER MOSFETS INCLUDING TERMINATION STRUCTURES	ISSUED	12/22/1994	5/28/1996	Siliconix incorporated	025675/0001
UTL	07/854,162	5,248,627	THRESHOLD ADJUSTMENT IN FABRICATING VERTICAL DMOS DEVICES	ISSUED	3/20/1992	9/28/1993	Siliconix incorporated	025675/0001
UTL	08/062,370	5,465,000	THRESHOLD ADJUSTMENT IN VERTICAL DMOS DEVICES	ISSUED	5/14/1993	11/7/1995	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/482,341	5,726,477	THRESHOLD ADJUSTMENT IN FIELD EFFECT SEMICONDUCTOR DEVICES	ISSUED	6/6/1995	3/10/1998	Siliconix incorporated	025675/0001
UTL	07/855,377	5,296,765	DRIVER CIRCUIT FOR SINKING CURRENT TO TWO SUPPLY VOLTAGES	ISSUED	3/20/1992	3/22/1994	Siliconix incorporated	025675/0001
UTL	08/101,886	5,426,325	METAL CROSSOVER IN HIGH VOLTAGE IC WITH GRADUATED DOPING CONTROL	ISSUED	8/4/1993	6/20/1995	Siliconix incorporated	025675/0001
UTL	08/226,419	5,426,328	BICDMOS STRUCTURES	ISSUED	4/11/1994	6/20/1995	Siliconix incorporated	025675/0001
UTL	08/323,950	5,559,044	BICDMOS PROCESS, TECHNOLOGY	ISSUED	10/17/1994	9/24/1996	Siliconix incorporated	025675/0001
UTL	08/464,435	5,583,061	PMOS TRANSISTORS WITH DIFFERENT BREAKDOWN VOLTAGES FORMED IN THE SAME SUBSTRATE	ISSUED	6/5/1995	12/10/1996	Siliconix incorporated	025675/0001
UTL	08/464,978	5,547,880	METHOD FOR FORMING A ZENER DIODE REGION AND AN ISOLATION REGION	ISSUED	6/5/1995	8/20/1996	Siliconix incorporated	025675/0001
UTL	08/463,647	5,541,123	METHOD FOR FORMING A BIPOLAR TRANSISTOR HAVING SELECTED BREAKDOWN VOLTAGE	ISSUED	6/5/1995	7/30/1996	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/463,165	5,541,125	METHOD FOR FORMING A LATERAL MOS TRANSISTOR HAVING LIGHTLY DOPED DRAIN FORMED ALONG WITH OTHER TRANSISTORS IN THE SAME SUBSTRATE	ISSUED	6/5/1995	7/30/1996	Siliconix incorporated	025675/0001
UTL	08/647,073	5,648,281	METHOD FOR FORMING AN ISOLATION STRUCTURE AND A ISSUED BIPOLAR TRANSISTOR ON A SEMICONDUCTOR SUBSTRATE	ISSUED	5/8/1996	7/15/1997	Siliconix incorporated	025675/0001
UTL	08/667,219	5,643,820	METHOD FOR FABRICATING AND MOS CAPACITOR USING ZENER DIODE REGION	ISSUED	6/19/1996	7/1/1997	Siliconix incorporated	025675/0001
UTL	08/026,932	5,374,569	METHOD FOR FORMING A BICDMOS	ISSUED	3/5/1993	12/20/1994	Siliconix incorporated	025675/0001
UTL	08/705,910	5,751,054	ZENER DIODES ON SAME WAFER WITH BICDMOS STRUCTURES	ISSUED	8/29/1996	5/12/1998	Siliconix incorporated	025675/0001
UTL	08/026,930	5,422,508	BICDMOS STRUCTURE	ISSUED	3/5/1993	6/6/1995	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/463,417	5,618,743	MOS TRANSISTOR HAVING ADJUSTED THRESHOLD VOLTAGE FORMED ALONG WITH OTHER TRANSISTORS	ISSUED	6/5/1995	4/8/1997	Siliconix incorporated	025675/0001
UTL	08/131,114	5,479,037	LOW THRESHOLD VOLTAGE EPITAXIAL DMOS TECHNOLOGY	ISSUED	10/1/1993	12/26/1995	Siliconix incorporated	025675/0001
UTL	07/918,954	5,910,669	FIELD EFFECT TRENCH TRANSISTOR HAVING LIGHTLY DOPED EPITAXIAL REGION ON THE SURFACE PORTION THEREOF	ISSUED	7/24/1992	6/8/1999	Siliconix incorporated	025675/0001
UTL	08/386,895	5,558,313	TRENCH FIELD EFFECT TRANSISTOR WITH REDUCED PUNCH-THROUGH SUSCEPTIBILITY AND LOW RDSON	ISSUED	2/10/1995	9/24/1996	Siliconix incorporated	025675/0001
UTL	08/447,484	5,532,179	METHOD OF MAKING A FIELD EFFECT TRENCH TRANSISTOR HAVING LIGHTLY DOPED EPITAXIAL REGION ON THE SURFACE PORTION THEREOF	ISSUED	5/23/1995	7/2/1996	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/658,115	5,981,344	TRENCH FIELD EFFECT TRANSISTOR WITH REDUCED PUNCH-THROUGH SUSCEPTIBILITY AND LOW RDSON	ISSUED	6/4/1996	11/9/1999	Siliconix incorporated	025675/0001
UTL	07/873,423	5,430,314	POWER DEVICE WITH BUFFERED GATE SHIELD	ISSUED	4/23/1992	7/4/1995	Siliconix incorporated	025675/0001
UTL	08/242,519	5,445,978	METHOD OF MAKING POWER DEVICE WITH BUFFERED GATE SHIELD REGION	ISSUED	5/13/1994	8/29/1995	Siliconix incorporated	025675/0001
UTL	07/918,996	5,430,324	HIGH VOLTAGE TRANSISTOR HAVING EDGE TERMINATION UTILIZING TRENCH TECHNOLOGY	ISSUED	7/23/1992	7/4/1995	Siliconix incorporated	025675/0001
UTL	08/444,336	5,605,852	METHOD FOR FABRICATING HIGH VOLTAGE TRANSISTOR HAVING TRENCHED TERMINATION	ISSUED	5/18/1995	2/25/1997	Siliconix incorporated	025675/0001
UTL	08/062,507	5,412,239	CONTACT GEOMETRY FOR IMPROVED LATERAL	ISSUED	5/14/1993	5/2/1995	Siliconix incorporated	025675/0001
UTL	08/160,560	5,510,747	GATE DRIVE TECHNIQUE FOR A BIDIRECTIONAL BLOCKING LATERAL MOSFET	ISSUED	11/30/1993	4/23/1996	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/569,334	5,612,566	BIDERECTIONAL BLOCKING LATERAL MOSFET WITH IMPROVED ON-RESISTANCE	ISSUED	12/8/1995	3/18/1997	Siliconix incorporated	025675/0001
UTL	08/636,258	5,731,732	GATE DRIVE TECHNIQUE FOR A BIDIRECTIONAL BLOCKING LATERAL MOSFET	ISSUED	4/22/1996	3/24/1998	Siliconix incorporated	025675/0001
UTL	08/907,216	5,909,139	METHOD AND APPARATUS FOR PROVIDING GATE DRIVE VOLTAGE TO SWITCHING DEVICE	ISSUED	8/5/1997	6/1/1999	Siliconix incorporated	025675/0001
UTL	08/160,539	5,420,451	A BIDIRECTIONAL BLOCKING LATERAL MOSFET WITH IMPROVED ON-RESISTANCE	ISSUED	11/30/1993	5/30/1995	Siliconix incorporated	025675/0001
UTL	08/318,323	5,451,533	A BIDIRECTIONAL BLOCKING LATERAL MOSFET WITH IMPROVED ON-RESISTANCE	ISSUED	10/5/1994	9/19/1995	Siliconix incorporated	025675/0001
UTL	08/326,172	5,545,909	ELECTROSTATIC DISCHARGE PROTECTION DEVICE FOR INTEGRATED CIRCUIT	ISSUED	10/19/1994	8/13/1996	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/472,943	5,677,205	METHOD FOR FORMING ELECTROSTATIC DISCHARGE PROTECTION DEVICE FOR INTEGRATED CIRCUIT	ISSUED	6/6/1995	10/14/1997	Siliconix incorporated	025675/0001
UTL	08/486,280	5,654,574	ELECTROSTATIC DISCHARGE PROTECTION DEVICE FOR INTEGRATED CIRCUIT	ISSUED	6/6/1995	8/5/1997	Siliconix incorporated	025675/0001
UTL	08/873,781	5,877,534	METHOD OF FORMING ELECTROSTATIC DISCHARGE PROTECTION DEVICE FOR INTEGRATED CIRCUIT	ISSUED	6/12/1997	3/2/1999	Siliconix incorporated	025675/0001
UTL	08/295,271	5,528,483	VOLTAGE CONVERTER WITH SHIFT PROTECTION AGAINST OVERLOAD CURRENT	ISSUED	8/23/1994	6/18/1996	Siliconix incorporated	025675/0001
UTL	08/268,755	5,486,772	RELIABILITY TEST METHOD FOR SEMICONDUCTOR TRENCH DEVICES	ISSUED	6/30/1994	1/23/1996	Siliconix incorporated	025675/0001
UTL	08/253,527	5,468,982	TRENCHED DMOS TRANSISTOR WITH CHANNEL BLOCK AT CELL TRENCH CORNERS	ISSUED	6/3/1994	11/21/1995	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/429,414	5,674,766	METHOD OF MAKING A TRENCH MOSFET WITH MULTI-RESISTIVITY DRAIN TO PROVIDE LOW ON-RESISTANCE BY VARYING DOPANT	ISSUED	4/26/1995	10/7/1997	Siliconix incorporated	025675/0001
UTL	08/701,035	5,895,952	TRENCH MOSFET WITH MULTI-RESISTIVITY DRAIN TO PROVIDE LOW ON-RESISTANCE	ISSUED	8/21/1996	4/20/1999	Siliconix incorporated	025675/0001
UTL	08/423,588	5,597,765	METHOD FOR MAKING TERMINATION STRUCTURE FOR POWER MOSFET	ISSUED	4/17/1995	1/28/1997	Siliconix incorporated	025675/0001
UTL	08/632,052	5,614,751	EDGE TERMINATION STRUCTURE FOR POWER MOSFET	ISSUED	4/15/1996	3/25/1997	Siliconix incorporated	025675/0001
UTL	08/367,515	5,689,209	LOW-SIDE BIDIRECTIONAL BATTERY DISCONNECT SWITCH	ISSUED	12/30/1994	11/18/1997	Siliconix incorporated	025675/0001
UTL	08/325,860	5,585,991	PROTECTIVE CIRCUIT FOR PROTECTING LOAD AGAINST EXCESSIVE INPUT VOLTAGE	ISSUED	10/19/1994	12/17/1996	Siliconix incorporated	025675/0001
UTL	08/326,408	5,559,424	VOLTAGE REGULATOR HAVING IMPROVED STABILITY	ISSUED	10/20/1994	9/24/1996	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/388,535	5,596,265	BAND GAP VOLTAGE COMPENSATION CIRCUIT	ISSUED	2/14/1995	1/21/1997	Siliconix incorporated	025675/0001
UTL	08/389,705	5,506,496	OUTPUT CONTROL CIRCUIT FOR A VOLTAGE REGULATOR	ISSUED	2/14/1995	4/9/1996	Siliconix incorporated	025675/0001
UTL	08/533,814	5,689,128	HIGH DENSITY TRENCHED DMOS TRANSISTOR	ISSUED	8/21/1995	11/18/1997	Siliconix incorporated	025675/0001
UTL	08/415,009	5,592,005	PUNCH-THROUGH FIELD EFFECT TRANSISTOR	ISSUED	3/31/1995	1/7/1997	Siliconix incorporated	025675/0001
UTL	08/962,885	6,069,043	METHOD OF MAKING PUNCH-THROUGH HELD EFFECT TRANSISTOR	ISSUED	11/21/1997	5/30/2000	Siliconix incorporated	025675/0001
UTL	08/459,054	5,856,692	VOLTAGE-CLAMPED POWER ACCUMULATION-MODE MOSFET	ISSUED	6/2/1995	1/5/1999	Siliconix incorporated	025675/0001
UTL	08/884,826	5,877,538	BIDIRECTIONAL TRENCH GATED POWER MOSFET WITH SUBMERGED BODY BUS EXTENDING UNDERNEATH GATE TRENCH	ISSUED	6/30/1997	3/2/1999	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/186,216	6,096,608	BIDIRECTIONAL TRENCH GATED POWER MOSFET WITH SUBMERGED BODY BUS EXTENDING UNDERNEATH GATE TRENCH	ISSUED	11/3/1998	8/1/2000	Siliconix incorporated	025675/0001
UTL	08/610,563	5,821,583	TRENCHED DMOS TRANSISTOR WITH LIGHTLY DOPED TUB	ISSUED	3/6/1996	10/13/1998	Siliconix incorporated	025675/0001
UTL	08/537,157	5,629,543	TRENCHED DMOS TRANSISTOR WITH BURIED LAYER FOR REDUCED ON-RESISTANCE AND RUGGEDNESS	ISSUED	8/21/1995	5/13/1997	Siliconix incorporated	025675/0001
UTL	08/846,688	5,998,836	TRENCH-GATED POWER MOSFET WITH PROTECTIVE DIODE	ISSUED	4/30/1997	12/7/1999	Siliconix incorporated	025675/0001
UTL	08/919,523	5,998,837	TRENCH-GATED POWER MOSFET WITH PROTECTIVE DIODE HAVING ADJUSTABLE BREAKDOWN VOLTAGE	ISSUED	8/28/1997	12/7/1999	Siliconix incorporated	025675/0001
UTL	08/962,867	6,140,678	TRENCH-GATED POWER MOSFET WITH PROTECTIVE DIODE	ISSUED	11/3/1997	10/31/2000	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/920,330	6,049,108	TRENCH-GATED POWER MOSFET WITH BIDIRECTIONAL VOLTAGE CLAMPING	ISSUED	8/28/1997	4/11/2000	Siliconix incorporated	025675/0001
UTL	08/459,559	5,661,322	BIDIRECTIONAL BLOCKING ACCUMULATION-MODE TRENCH POWER MOSFET	ISSUED	6/2/1995	8/26/1997	Siliconix incorporated	025675/0001
UTL	08/648,334	5,818,084	PSEUDO-SCHOTTKY DIODE	ISSUED	5/15/1996	10/6/1998	Siliconix incorporated	025675/0001
UTL	08/964,419	5,929,481	HIGH DENSITY TRENCH DMOS TRANSISTOR WITH TRENCH BOTTOM IMPLANT	ISSUED	11/4/1997	7/27/1999	Siliconix incorporated	025675/0001
UTL	08/595,812	5,767,643	COMMUTATION DELAY GENERATOR FOR A MULTIPHASE BRUSHLESS DC MOTOR	ISSUED	2/2/1996	6/16/1998	Siliconix incorporated	025675/0001
UTL	08/594,676	5,736,879	CLOSED-LOOP FREQUENCY-TO-CURRENT CONVERTER WITH INTEGRABLE CAPACITANCES	ISSUED	2/2/1996	4/7/1998	Siliconix incorporated	025675/0001
UTL	08/979,837	5,955,903	FOLDED RAMP CAPACITANCE CIRCUIT WITH CURRENT SOURCE AND COMPARATOR CIRCUIT	ISSUED	11/26/1997	9/21/1999	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/946,613	6,046,470	TRENCH-GATED MOSFET WITH INTEGRAL TEMPERATURE DETECTION DIODE	ISSUED	10/7/1997	4/4/2000	Siliconix incorporated	025675/0001
UTL	08/538,105	5,726,594	SWITCHING DEVICE INCLUDING POWER MOSFET WITH INTERNAL POWER SUPPLY CIRCUIT	ISSUED	10/2/1995	3/10/1998	Siliconix incorporated	025675/0001
UTL	09/041,368	6,087,862	POWER MOSFET INTERNAL POWER SUPPLY CIRCUITRY	ISSUED	3/11/1998	7/11/2000	Siliconix incorporated	025675/0001
UTL	08/542,611	5,616,945	MULTIPLE GATED MOSFET FOR USE IN DC-DC CONVERTER	ISSUED	10/13/1995	4/1/1997	Siliconix incorporated	025675/0001
UTL	08/828,474	5,973,367	MULTIPLE GATED MOSFET FOR USE IN DC-DC CONVERTER	ISSUED	3/31/1997	10/26/1999	Siliconix incorporated	025675/0001
UTL	08/570,876	5,939,752	LOW VOLTAGE MOSFET WITH LOW ON-RESISTANCE AND HIGH BREAKDOWN VOLTAGE	ISSUED	12/12/1995	8/17/1999	Siliconix incorporated	025675/0001
UTL	08/616,393	5,814,858	VERTICAL POWER MOSFET HAVING REDUCED SENSITIVITY TO VARIATIONS IN THICKNESS OF EPITAXIAL LAYER	ISSUED	3/15/1996	9/29/1998	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/956,257	6,031,702	SHORT CIRCUIT PROTECTED DC-DC CONVERTER USING DISCONNECT SWITCHING AND METHOD OF PROTECTING LOAD AGAINST SHORT CIRCUITS	ISSUED	10/22/1997	2/29/2000	Siliconix incorporated	025675/0001
UTL	08/767,708	6,090,716	METHOD OF FABRICATING A FIELD EFFECT TRANSISTOR	ISSUED	12/17/1996	7/18/2000	Siliconix incorporated	025675/0001
UTL	08/651,232	5,998,834	LONG-CHANNEL TRENCH-GATED POWER MOSFET : HAVING FULLY DEPLETED BODY REGION	ISSUED	5/22/1996	12/7/1999		025675/0001
UTL	08/648,266	5,744,994	THREE-TERMINAL POWER MOSFET SWITCH FOR USE AS SYNCHRONOUS RECTIFIER OR VOLTAGE CLAMP	ISSUED				025675/0001
UTL	08/937,941	5,929,690	THREE-TERMINAL POWER MOSFET SWITCH FOR USE AS SYNCHRONOUS RECTIFIER OR VOLTAGE CLAMP	ISSUED	9/25/1997	7/27/1999	Siliconix incorporated	025675/0001
UTL	08/649,747	5,689,144	FOUR-TERMINAL POWER MOSFET SWITCH HAVING REDUCED THRESHOLD VOLTAGE AND ON-RESISTANCE	ISSUED	5/15/1996	11/18/1997	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0269

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/701,114	5,808,453	SYNCHRONOUS CURRENT SHARING PULSE WIDTH MODULATOR	ISSUED	8/21/1996	9/15/1998	Siliconix incorporated	025675/0001
UTL	08/482,357	5,688,725	METHOD OF MAKING A TRENCH MOSFET WITH DOPE HEAVILY D DELTA LAYER TO PROVIDE LOW ON-RESISTANCE	ISSUED	6/6/1995	11/18/1997	Siliconix incorporated	025675/0001
UTL	08/895,497	6,008,520	TRENCH MOSFET WITH HEAVILY DOPED DELTA LAYER TO PROVIDE LOW ON-RESISTANCE	ISSUED	7/16/1997	12/28/1999	Siliconix incorporated	025675/0001
UTL	08/556,369	6,066,890	SEPARATE CIRCUIT DEVICES IN AN INTRA-PACKAGE CONFIGURATION AND ASSEMBLY TECHNIQUES	ISSUED	11/13/1995	5/23/2000	Siliconix incorporated	025675/0001
UTL	08/742,326	5,917,216	TRENCHED FIELD EFFECT TRANSISTOR EFFECT TRANSISTOR WITHIN DEPLETION BARRIER		10/31/1996	6/29/1999	Siliconix incorporated	025675/0001
UTL	08/646,593	5,904,525	FABRICATION OF HIGH-DENSITY TRENCH DMOS USING SIDEWALL SPACERS	ISSUED	5/8/1996	5/18/1999	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0270

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/832,012	6,078,090	TRENCH-GATED SCHOTTKY DIODE WITH INTEGRAL CLAMPING DIODE	ISSUED	4/2/1997	6/20/2000	Siliconix incorporated	025675/0001
UTL	08/899,001	5,909,103	SAFETY SWITCH FOR LITHIUM ION BATTERY	ISSUED	7/24/1997	6/1/1999	Siliconix incorporated	025675/0001
UTL	08/922,672	5,923,979	PLANAR DMOS TRANSISTOR FABRICATED BY A THREE MASK PROCESS	ISSUED	9/3/1997	7/13/1999	Siliconix incorporated	025675/0001
UTL	09/002,179	6,060,752	ELECTROSTATIC DISCHARGE PROTECTION CIRCUIT	ISSUED	12/31/1997	5/9/2000	Siliconix incorporated	025675/0001
UTL	09/071,729	6,072,216	VERTICAL DMOS FIELD EFFECT TRANSISTOR WITH CONFORMAL BURIED LAYER FOR REDUCED ON-RESISTANCE	ISSUED	5/1/1998	6/6/2000	Siliconix incorporated	025675/0001
UTL	07/904,402	5,485,027	COMPLIMENTARY ISOLATED DMOS IC TECHNOLOGY	ISSUED	6/24/1992	1/16/1996	Siliconix incorporated	025675/0001
UTL	08/046,058	5,306,656	METHOD FOR REDUCING ON RESISTANCE AND IMPROVING CURRENT CHARACTERISTICS OF A MOSFET	ISSUED	4/12/1993	4/26/1991	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0271

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/200,197	6,084,264	TRENCH MOSFET HAVING IMPROVED BREAKDOWN AND ON-RESISTANCE CHARACTERISTICS	ISSUED	11/25/1998	7/4/2000	Siliconix incorporated	025675/0001
UTL	07/762,103	5,298,442	TRENCH DMOS POWER TRANSISTOR WITH FIELD-SHAPING BODY PROFILE AND THREE-DIMENSIONAL GEOMETRY	ISSUED	9/18/1991	3/29/1994	Siliconix incorporated	025675/0001
UTL	07/910,864	5,298,781	VERTICAL CURRENT FLOW FIELD EFFECT TRANSISTOR WITH THICK INSULATOR OVER NON-CHANNEL AREAS	ISSUED	7/8/1992	3/29/1994	Siliconix incorporated	025675/0001
UTL	07/978,201	5,576,245	METHOD OF MAKING A VERTICAL CURRENT FLOW FIELD EFFECT TRANSISTOR	ISSUED	11/18/1992	11/19/1996	Siliconix incorporated	025675/0001
UTL	09/306,003	6,172,383	POWER MOSFET HAVING VOLTAGE-CLAMPED GATE	ISSUED	5/5/1999	1/9/2001	Siliconix incorporated	025675/0001
UTL	08/067,365	5,539,610	FLOATING DRIVE TECHNIQUE FOR REVERSE BATTERY PROTECTION	ISSUED	5/26/1993	7/23/1996	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0272

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/603,512	5,757,081	SURFACE MOUNT AND FLIP CHIP TECHNOLOGY FOR TOTAL INTEGRATED CIRCUIT ISOLATION	ISSUED	2/20/1996	5/26/1998	Siliconix incorporated	025675/0001
UTL	08/634,957	5,767,578	SURFACE MOUNT AND FLIP CHIP TECHNOLOGY WITH DIAMOND FILM PASSIVATION FOR TOTAL INTEGRATED CIRCUIT ISOLATION	ISSUED	4/19/1996	6/16/1998	Siliconix incorporated	025675/0001
UTL	08/541,345	5,682,050	BIDIRECTIONAL CURRENT BLOCKING MOSFET FOR BATTERY DISCONNECT SWITCHING INCLUDING PROTECTION AGAINST REVERSE CONNECTED BATTERY CHARGER	ISSUED	10/10/1995	10/28/1997	Siliconix incorporated	025675/0001
UTL	08/636,367	5,747,891	METHOD OF BLOCKING BIDIRECTIONAL FLOW OF CURRENT	ISSUED	4/23/1996	5/5/1998	Siliconix incorporated	025675/0001
UTL	09/006,774	6,087,740	PORTABLE COMPUTER CONTAINING BIDIRECTIONAL CURRENT BLOCKING MOSFET FOR BATTERY DISCONNECT SWITCHING	ISSUED	1/14/1998	7/11/2000	Siliconix incorporated	025675/0001

TRADEMARK
REEL: 006695 FRAME: 0273

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	07/928,909	5,316,959	TRENCHED DMOS TRANSISTOR FABRICATION USING SIX MASKS	ISSUED	8/12/1992	5/31/1994	Siliconix incorporated	025675/0001
UTL	08/603,047	5,639,676	TRENCHED DMOS TRANSISTOR FABRICATION HAVING THICK TERMINATION REGION OXIDE	ISSUED	2/16/1996	6/17/1997	Siliconix incorporated	025675/0001
UTL	08/625,639	5,578,851	TRENCHED DMOS TRANSISTOR HAVING THICK FIELD OXIDE IN TERMINATION REGION	ISSUED	3/29/1996	11/26/1996	Siliconix incorporated	025675/0001
UTL	08/480,469	5,621,604	PWM MULTIPLEXED SOLENOID DRIVER	ISSUED	6/7/1995	4/15/1997	Siliconix incorporated	025675/0001
UTL	08/479,308	5,750,416	METHOD OF FORMING A LATERAL FIELD EFFECT TRANSISTOR HAVING REDUCED DRAIN-TO-SOURCE ON-RESISTANCE	ISSUED	6/7/1995	5/12/1998	Siliconix incorporated	025675/0001
UTL	11/698,519	7,557,409	SUPER TRENCH MOSFET INCLUDING BURIED SOURCE ELECTRODE	ISSUED	1/26/2007	7/7/2009	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0274

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/872,931	7,435,650	PROCESS FOR MANUFACTURING TRENCH MIS DEVICE HAVING IMPLANTED DRAIN-DRIFT REGION AND THICK BOTTOM OXIDE	ISSUED	6/21/2004	10/14/2008	Siliconix incorporated	025675/0001
UTL	11/335,747	7,416,947	METHOD OF FABRICATING TRENCH MIS DEVICE WITH THICK OXIDE LAYER IN BOTTOM OF TRENCH	ISSUED	1/19/2006	8/26/2008	Siliconix incorporated	025675/0001
UTL	10/996,148	7,394,150	SEMICONDUCTOR PACKAGE INCLUDING DIE INTERPOSED BETWEEN CUP-SHAPED LEAD FRAME AND LEAD FRAME HAVING MESAS AND VALLEYS	ISSUED ISSUED	11/23/2004	7/1/2008	Siliconix incorporated	025675/0001
UTL	11/158,382	7,326,995	TRENCH MIS DEVICE HAVING IMPLANTED DRAIN-DRIFT REGION AND THICK BOTTOM OXIDE	ISSUED	6/22/2005	2/5/2008	Siliconix incorporated	025675/0001
UTL	10/454,031	7,291,884	TRENCH MIS DEVICE HAVING IMPLANTED DRAIN-DRIFT REGION AND THICK BOTTOM OXIDE	ISSUED	6/4/2003	1 1/6/2007	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0275

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	11/232,613	7,268,032	TERMINATION FOR TRENCH MIS DEVICE HAVING IMPLANTED DRAIN-DRIFT REGION	ISSUED	9/21/2005	9/11/2007	Siliconix incorporated	025675/0001
UTL	10/996,149	7,238,551	METHOD OF FABRICATING SEMICONDUCTOR PACKAGE INCLUDING DIE INTERPOSED BETWEEN CUP-SHAPED LEAD FRAME HAVING MESAS AND VALLEYS	ISSUED	11/23/2004	7/3/2007	Siliconix incorporated	025675/0001
UTL	11/150,016	7,233,043	TRIPLE-DIFFUSED TRENCH MOSFET	ISSUED	6/10/2005	6/19/2007	Siliconix incorporated	025675/0001
UTL	10/836,833	7,183,610	SUPER TRENCH MOSFET INCLUDING BURIED SOURCE ELECTRODE AND METHOD OF FABRICATING THE SAME	ISSUED	4/30/2004	2/27/2007	Siliconix incorporated	025675/0001
UTL	11/141,942	7,118,953	PROCESS OF FABRICATING TERMINATION REGION FOR TRENCH MIS DEVICE	ISSUED	6/1/2005	10/10/2006	Siliconix incorporated	025675/0001
UTL	10/810,031	7,045,857	TERMINATION FOR TRENCH MIS DEVICE HAVING IMPLANTED DRAIN-DRIFT REGION	ISSUED	3/26/2 004	5/16/2006	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0276

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/326,311	7,033,876	TRENCH MIS DEVICE HAVING IMPLANTED DRAIN-DRIFT REGION AND THICK BOTTOM OXIDE AND PROCESS FOR MANUFACTURING THE SAME	ISSUED	12/19/2002	4/25/2006	Siliconix incorporated	025675/0001
UTL	10/180,154	7,012,005	SELF-ALIGNED DIFFERENTIAL OXIDATION IN TRENCHES BY ION IMPLANTATION	ISSUED	6/25/2002	3/14/2006	Siliconix incorporated	025675/0001
UTL	10/722,984	7,009,247	TRENCH MIS DEVICE WITH THICK OXIDE LAYER IN BOTTOM OF GATE CONTACT TRENCH	ISSUED	11/25/2003	3/7/2006	Siliconix incorporated	025675/0001
UTL	10/811,443	6,927,451	TERMINATION FOR TRENCH MIS DEVICE HAVING IMPLANTED DRAIN-DRIFT REGION	ISSUED	3/26/2004	8/9/2005	Siliconix incorporated	025675/0001
UTL	10/264,816	6,921,697	METHOD FOR MAKING TRENCH MIS DEVICE WITH REDUCED GATE-TO-DRAIN CAPACITANCE	ISSUED	10/3/2002	7/26/2005	Siliconix incorporated	025675/0001
UTL	10/657,830	6,913,977	TRIPLE-DIFFUSED TRENCH MOSFET AND METHOD OF FABRICATING THE SAME	ISSUED	9/8/2003	7/5/2005	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0277

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/291,153	6,909,170	SEMICONDUCTOR ASSEMBLY WITH PACKAGE USING CUP-SHAPED LEAD FRAME	ISSUED	11/7/2002	6/21/2005	Siliconix incorporated	025675/0001
UTL	10/106,812	6,903,412	TRENCH MIS DEVICE WITH GRADUATED GATE OXIDE LAYER	ISSUED	3/26/2002	6/7/2005	Siliconix incorporated	025675/0001
UTL	09/927,320	6,882,000	TRENCH MIS DEVICE WITH REDUCED GATE-TO-DRAIN CAPACITANCE	ISSUED	8/10/2001	4/19/2005	Siliconix incorporated	025675/0001
UTL	10/106,896	6,875,657	METHOD OF FABRICATING TRENCH MIS DEVICE WITH GRADUATED GATE OXIDE LAYER	ISSUED	3/26/2002	4/5/2005	Siliconix incorporated	025675/0001
UTL	09/927,143	6,849,898	TRENCH MIS DEVICE WITH ACTIVE TRENCH CORNERS AND THICK BOTTOM OXIDE AND METHOD OF MAKING THE SAME	ISSUED	8/10/2001	2/1/2005	Siliconix incorporated	025675/0001
UTL	10/104,811	6,838,722	STRUCTURES OF AND METHODS OF FABRICATING TRENCH-GATED MIS DEVICES	ISSUED	3/22/2002	1/4/2005	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0278

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/317,568	6,764,906	METHOD FOR MAKING TRENCH MOSFET HAVING IMPLANTED DRAIN-DRIFT REGION	ISSUED	12/12/2002	7/20/2004	Siliconix incorporated	025675/0001
UTL	09/468,429	6,744,124	SEMICONDUCTOR DIE PACKAGE INCLUDING CUP-SHAPED LEADFRAME	ISSUED	12/10/1999	6/1/2004	Siliconix incorporated	025675/0001
UTL	10/176,570	6,709,930	THICKER OXIDE FORMATION AT THE TRENCH BOTTOM BY SELECTIVE OXIDE DEPOSITION	ISSUED	6/21/2002	3/23/2004	Siliconix incorporated	025675/0001
UTL	08/851,608	6,627,950	TRENCH DMOS POWER TRANSISTOR WITH FIELD-SHAPING BODY PROFILE AND THREE-DIMENSIONAL GEOMETRY	ISSUED	5/5/1997	9/30/2003	Siliconix incorporated	025675/0001
UTL	10/211,438	6,600,193	TRENCH MOSFET HAVING IMPLANTED DRAIN-DRIFT REGION	ISSUED	8/2/2002	7/29/2003	Siliconix incorporated	025675/0001
UTL	08/800,972	6,590,440	LOW-SIDE BIDIRECTIONAL BATTERY DISCONNECT SWITCH	ISSUED	2/19/1997	7/8/2003	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0279

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/898,652	6,569,738	PROCESS FOR MANUFACTURING TRENCH GATED MOSFET HAVING DRAIN/DRIFT REGION	ISSUED	7/3/2001	5/27/2003	Siliconix incorporated	025675/0001
UTL	09/816,717	6,534,366	METHOD OF FABRICATING TRENCH-GATED POWER MOSFET	ISSUED	3/21/2001	3/18/2003	Siliconix incorporated	025675/0001
UTL	10/094,476	6,509,233	METHOD OF MAKING TRENCH-GATED MOSFET HAVING CESIUM GATE OXIDE LAYER	ISSUED	3/7/2002	1/21/2003	Siliconix incorporated	025675/0001
UTL	09/037,557	6,476,442	PSEUDO-SCHOTTKY DIODE	ISSUED	3/9/1998	11/5/2002	Siliconix incorporated	025675/0001
UTL	09/545,287	6,392,290	VERTICAL STRUCTURE FOR SEMICONDUCTOR WAFER-LEVEL CHIP SCALE PACKAGES	ISSUED	4/7/2000	5/21/2002	Siliconix incorporated	025675/0001
UTL	09/476,320	6,285,060	BARRIER ACCUMULATION MODE MOSFET	ISSUED	12/30/1999	9/4/2001	Siliconix incorporated	025675/0001
UTL	09/293,380	6,277,695	METHOD OF FORMING VERTICAL PLANAR DMOSFET WITH SELF-ALIGNED CONTACT	ISSUED	4/16/1999	8/21/2001	Siliconix incorporated	025675/0001
UTL	09/089,310	6,249,041	IC CHIP PACKAGE WITH DIRECTLY CONNECTED LEADS	ISSUED	6/2/1998	6/19/2001	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0280

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	08/919,386	6,239,463	LOW RESISTANCE POWER MOSFET OR OTHER DEVICE CONTAINING SILICON-GERMANIUM LAYER	ISSUED	8/28/1997	5/29/2001	Siliconix incorporated	025675/0001
UTL	09/089,250	6,204,533	VERTICAL TRENCH-GATED POWER MOSFET HAVING STRIPE GEOMETRY AND HIGH CELL DENSITY	ISSUED	6/2/1998	3/20/2001	Siliconix incorporated	025675/0001
UTL	08/487,789	5,925,411	GAS-BASED SUBSTRATE DEPOSITION PROTECTION	ISSUED	6/7/1995	7/20/1999	Siliconix incorporated	025675/0001
UTL	09/481,135	6,444,527	METHOD OF OPERATION OF PUNCH-THROUGH FIELD EFFECT TRANSISTOR	ISSUED	1/11/2000	9/3/2002	Siliconix incorporated	025675/0001
UTL	09/502,546	6,300,744	HIGH-EFFICIENCY BATTERY CHARGER	ISSUED	2/10/2000	10/9/2001	Siliconix incorporated	025675/0001
Design	29/151,024	D,466,873	SEMICONDUCTOR CHIP PACKAGE	ISSUED	10/31/2002	12/10/2002	Siliconix incorporated	025675/0001
Design	29/151,069	D,472,528	SEMICONDUCTOR CHIP PACKAGE	ISSUED	10/31/2002	4/1/2003	Siliconix incorporated	025675/0001
PRV	61/257,362		TRANSISTOR STRUCTURE WITH FEED THROUGH SOURCE-TO-SUBSTRATE CONTACT	PENDING		11/2/2009	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0281

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
PRV	61/309,824		STRUCTURES OF AND METHODS OF FABRICATING DUAL GATE MIS DEVICES	PENDING	3/2/2010		Siliconix incorporated	025675/0001
UTL	07/498,170	5,132,753	OPTIMIZATION OF BV AND RDS-ON BY GRADED DOPING IN LDD AND OTHER HIGH VOLTAGE ICS	ISSUED	3/23/1990	7/21/1992	Siliconix incorporated	025675/0001
UTL	08/777,636	5,866,931	DMOS POWER TRANSISTOR WITH REDUCED NUMBER OF CONTACTS USING INTEGRATED BODY-SOURCE CONNECTIONS	ISSUED	12/31/1996	2/2/1999	Siliconix incorporated	025675/0001
UTL	07/451,518	5,108,940	A MOS TRANSISTOR WITH A CHARGE INDUCED DRAIN EXTENSION	ISSUED	12/15/1989	4/28/1992	Siliconix incorporated	025675/0001
UTL	07/802,352	5,243,212	A TRANSISTOR WITH A CHARGE INDUCED DRAIN EXTENSION	ISSUED	12/4/1991	9/7/1993	Siliconix incorporated	025675/0001
UTL	08/225,270	5,416,039	METHOD OF MAKING DICDMOS STRUCTURES	ISSUED	4/8/1994	5/16/1995	Siliconix incorporated	025675/0001
UTL	06/757,582	4,682,405	METHOD FOR FORMING AN ELECTRICAL CONTACT IN A TRANSISTOR	ISSUED	7/22/1985	7/28/1987	Siliconix incorporated	025675/0001

TRADEMARK
REEL: 006695 FRAME: 0282

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	98111605.6	0895290	METHOD FOR MAKING TERMINATION STRUCTURE FOR POWER MOSFET	ISSUED	12/21/1995	10/30/2002	Siliconix incorporated	025675/0001
UTL	06/816,593	4,766,469	INTEGRATED BURIED ZENER DIODE AND TEMPERATURE COMPENSATION TRANSISTOR	ISSUED	1/6/1986	8/23/1988	Siliconix incorporated	025675/0001
UTL	06/890,218	4,978,631	CURRENT SOURCE WITH A PROCESS SELECTABLE TEMPERATURE COEFFICIENT	ISSUED	7/25/1986	12/18/1990	Siliconix incorporated	025675/0001
UTL	07/010,924	4,824,795	METHOD FOR OBTAINING REGIONS OF DIELECTRICALLY ISOLATED SINGLE CRYSTAL SILICON	ISSUED	2/5/1987	4/25/1989	Siliconix incorporated	025675/0001
UTL	07/084,541	4,759,836	ION IMPLANTATION OF THIN FILM CRSI2 AND SIC RESISTORS	ISSUED	8/12/1987	7/26/1988	Siliconix incorporated	025675/0001
UTL	06/808,904	4,779,123	INSULATED GATE TRANSISTOR ARRAY	ISSUED	12/13/1985	10/18/1988	Siliconix incorporated	025675/0001
UTL	07/243,166	4,896,196	VERTICAL DMOS POWER TRANSITOR WITH AN INTEGRAL OPERATING CONDITION SENSOR	ISSUED	9/8/1988	1/23/1990	Siliconix incorporated	025675/0001
UTL	06/838,217	4,798,810	METHOD FOR MANUFACTURING A POWER MOS TRANSISTOR	ISSUED	3/10/1986	1/17/1989	Siliconix incorporated	025675/0001

TRADEMARK
REEL: 006695 FRAME: 0283

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	06/894,418	4,707,909	MANUFACTURE OF TRIMMABLE HIGH VALUE POLYCRYSTALLINE SILICON RESISTORS	ISSUED	8/8/1986	11/24/1987	Siliconix incorporated	025675/0001
UTL	06/808,575	4,674,020	POWER SUPPLY HAVING DUAL RAMP CONTROL CIRCUIT	ISSUED	12/13/1985	6/16/1987	Siliconix incorporated	025675/0001
UTL	07/138,989	4,816,882	POWER MOS TRANSISTOR WITH EQUIPOTENTIAL RING	ISSUED	12/29/1987	03/28/1989	Siliconix incorporated	025675/0001
UTL	06/871,006	4,716,126	FABRICATION OF DOUBLE DIFFUSED METAL OXIDE SEMICONDUCTOR TRANSISTOR	ISSUED	6/5/1986	12/29/1987	Siliconix incorporated	025675/0001
UTL	09/978,603	6,744,119	LEADFRAME HAVING SLOTS IN A DIE PAD	ISSUED	10/15/2001	6/1/2004	Siliconix incorporated	025675/0001
UTL	07/036,777	4,853,563	SWITCH INTERFACE CIRCUIT FOR POWER MOSFET GATE DRIVE CONTROL	ISSUED	4/10/1987	8/1/1989	Siliconix incorporated	025675/0001
UTL	07/195,436	4,794,436	HIGH VOLTAGE DRIFTED-DRAIN MOS TRANSISTOR	ISSUED	5/16/1988	12/27/1988	Siliconix incorporated	025675/0001
UTL	07/246,937	4,920,388	POWER TRANSISTOR WITH INTEGRATED GATE RESISTOR	ISSUED	9/19/1988	4/24/1990	Siliconix incorporated	025675/0001

TRADEMARK
REEL: 006695 FRAME: 0284

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	07/014,961	4,799,100	METHOD AND APPARATUS FOR INCREASING BREAKDOWN OF A PLANAR JUNCTION	ISSUED	2/17/1987	1/17/1989	Siliconix incorporated	025675/0001
UTL	06/927,882	4,827,324	IMPLANTATION OF IONS INTO AN INSULATING LAYER TO INCREASE PLANAR PN JUNCTION BREAKDOWN VOLTAGE	ISSUED	11/6/1986	5/2/1989	Siliconix incorporated	025675/0001
UTL	10/113,526	6,856,006	ENCAPSULATION METHOD AND LEADFRAME FOR LEADLESS SEMICONDUCTOR PACKAGES (as amended)	ISSUED	3/28/2002	2/15/2005	Siliconix incorporated	025675/0001
UTL	10/789,799	7,501,086B2	ENCAPSULATION METHOD FOR LEADLESS SEMICONDUCTOR PACKAGES	ISSUED	2/27/2004	3/10/2009	Siliconix incorporated	025675/0001
UTL	12/401,549		LEADLESS SEMICONDUCTOR PACKAGES	PENDING	3/10/2009		Siliconix incorporated	025675/0001
UTL	09/135,716		MULTILAYER SOLDER/BARRIER ATTACH FOR SEMICONDUCTOR CHIP	PENDING	8/17/1998		Siliconix incorporated	025675/0001
UTL	07/849,723	5,218,228	METHOD FOR FABRICATING A HIGH VOLTAGE MOS TRANSISTOR	ISSUED	3/11/1992	6/8/1993	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0285

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	07/678,578	5,132,235	METHOD FOR FABRICATING A HIGH VOLTAGE MOS TRANSISTOR	ISSUED	3/29/1991	7/21/1992	Siliconix incorporated	025675/0001
UTL	07/095,481	4,791,462	DENSE VERTICAL J-MOS TRANSISTOR	ISSUED	9/10/1987	12/13/1988	Siliconix incorporated	025675/0001
UTL	07/138,999	4,914,058	GROOVED DMOS PROCESS WITH VARYING GATE DIELECTRIC THICKNESS	ISSUED	12/19/1987	4/3/1990	Siliconix incorporated	025675/0001
UTL	07/167,617	4,967,245	TRENCH POWER MOSTEF DEVICE	ISSUED	3/14/1988	10/30/1990	Siliconix incorporated	025675/0001
UTL	07/453,367	4,958,204	JUNCTION FIELD-EFFECT TRANSISTOR WITH A NOVEL GATE	ISSUED	12/21/1989	9/18/1990	Siliconix incorporated	025675/0001
UTL	07/141,877	4,936,930	METHOD FOR IMPROVED ALIGNMENT FOR SEMICONDUCTOR DEVICES WITH BURIED LAYERS	ISSUED	1/6/1988	6/26/1990	Siliconix incorporated	025675/0001
UTL	09/314,621	6,268,242	METHOD OF FORMING VERTICAL MOSFET DEVICE HAVING VOLTAGE CLAMPED GATE AND SELF-ALIGNED CONTACT	ISSUED	5/19/1999	7/31/2001	Siliconix incorporated	025675/0001
UTL	07/089,184	4,774,196	METHOD OF BONDING SEMICONDCUTOR WAFERS	ISSUED	8/25/1987	9/27/1988	Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0286

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	07/334,806	4,929,991	RUGGED LATERAL DMOS TRANSISTOR STRUCTURE	ISSUED	4/5/1989	5/29/1990	Siliconix incorporated	025675/0001
UTL	07/099,452	4,835,586	DUAL-GATE HIGH DENSITY FET	ISSUED	9/21/1987	5/30/1989	Siliconix incorporated	025675/0001
UTL	07/115,076	4,845,051	BURIED GATE JFET	ISSUED	10/29/1987	7/4/1989	Siliconix incorporated	025675/0001
UTL	07/107,725	5,164,325	METHOD OF MAKING A VERTICAL CURRENT FLOW FIELD EFFECT TRANSISTOR	ISSUED	10/8/1987	11/17/1992	Siliconix incorporated	025675/0001
UTL	07/406,844	4,952,992	METHOD AND APPARATUS FOR IMPROVING THE ON-CHARACTERISTICS OF A SEMICONDUCTOR DEVICE	ISSUED	9/13/1989	8/28/1990	Siliconix incorporated	025675/0001
UTL	07/268,839	5,156,989	COMPLEMENTARY, ISOLATED DMOS IC TECHNOLOGY	ISSUED	1 1/8/1988	10/20/1992	Siliconix incorporated	025675/0001
UTL	07/133,710	4,890,146	HIGH VOLTAGE LEVEL SHIFT SEMICONDUCTOR DEVICE	ISSUED	12/16/1987	12/26/1989	Siliconix incorporated	025675/0001
UTL	11/151,749	7,595,547	SEMICONDUCTOR DIE PACKAGE INCLUDING CUP-SHAPED LEADFRAME	ISSUED	6/13/2005	9/29/2009	Siliconix incorporated	025675/0001
UTL	12/487,666		SEMICONDUCTOR PACKAGING TECHNIQUES	PENDING	6/19/2009		Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	07/290,546	5,072,266	TRENCH DMOS POWER TRANSISTOR WITH FIELD-SHAPING BODY PROFILE AND THREE-DIMENSIONAL GEOMETRY	ISSUED	12/27/1988	12/10/1991	Siliconix incorporated	025675/0001
UTL	07/285,842	5,055,896	SELF-ALIGNED LDD LATERAL DMOS TRANSISTOR WITH HIGH-VOLTAGE INTERCONNECT CAPABILITY	ISSUED	12/15/1988	10/8/1991	Siliconix incorporated	025675/0001
UTL	10/832,776	7,005,347	STRUCTURES OF AND METHOD OF FABRICATING TRENCH-GATED MIS DEVICES	ISSUED	4/27/2004	2/28/2006	Siliconix incorporated	025675/0001
UTL	10/898,431	7,335,946	STRUCTURES OF AND METHOD OF FABRICATING TRENCH-GATED MIS DEVICES	ISSUED	7/22/2004	2/26/2008	Siliconix incorporated	025675/0001
UTL	11/982,906		STRUCTURES OF AND METHOD OF FABRICATING TRENCH-GATED MIS DEVICES	PENDING	11/5/2007		Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0288

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/591,179		TRENCH-GATED MIS DEVICE HAVING THICK POLYSILICON INSULATION LAYER AT TRENCH BOTTOM AND METHOD OF FABRICATING THE SAME	PENDING	6/8/2000		Siliconix incorporated	025675/0001
UTL	11/112,403	7,494,876	TRENCH-GATED MIS DEVICE HAVING THICK POLYSLICON INSULATION LAYER TRENCH BOTTOM AND METHOD OF FABRICATING THE SAME	ISSUED	4/21/2005	2/24/2009	Siliconix incorporated	025675/0001
UTL	09/908,178	6,552,889	CURRENT LIMITING TECHNIQUE FOR HYBRID POWER MOSFET CIRCUITS	ISSUED	7/17/2001	4/22/2003	Siliconix incorporated	025675/0001
UTL	10/254,385		METHOD OF FORMING SELF ALIGNED CONTACTS FOR A POWER MOSFET	PENDING	9/24/2002		Siliconix incorporated	025675/0001
UTL	10/378,766		METHOD OF FORMING SELF ALIGNED CONTACTS FOR A POWER MOSFET	PENDING	3/3/2003		Siliconix incorporated	025675/0001
UTL	10/951,831	7,642,164B1	METHOD OF FORMING SELF ALIGNED CONTACTS FOR A POWER MOSFET	ISSUED	9/27/2004	1/5/2010	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/247,906	6,858,471	SEMICONDUCTOR SUBSTRATE WITH TRENCHES FOR REDUCING SUBSTRATE RESISTANCE	ISSUED	9/20/2002	2/22/2005	Siliconix incorporated	025675/0001
UTL	10/869,382		SELF-ALIGNED CONTACT IN A SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME	PENDING	6/15/2004		Siliconix incorporated	025675/0001
UTL	11/724,961		SELF-ALIGNED CONTACT IN A SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME	PENDING	3/16/2007		Siliconix incorporated	025675/0001
UTL	10/726,922	7,279,743	CLOSED CELL TRENCH METAL-OXIDE-SEMICONDUCTOR FIELD EFFECT TRANSISTOR	ISSUED	12/2/2003	10/9/2007	Siliconix incorporated	025675/0001
UTL	11/040,129	7,361,558	METHOD OF MANUFACTURING A CLOSED CELL TRENCH MOSFET	ISSUED	1/20/2005	4/22/2008	Siliconix incorporated	025675/0001
UTL	12/107,738	7,833,863	METHOD OF MANUFACTURING A ISSUED CLOSED CELL TRENCH MOSFET		4/22/2008	11/16/2010	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/846,339	6,906,380	DRAIN SIDE GATE TRENCH METAL-OXIDE-SEMICONDUCTOR FIELD EFFECT TRANSISTOR	ISSUED	5/13/2004	6/14/2005	Siliconix incorporated	025675/0001
UTL	12/050,929		STACKED TRENCH-OXIDE-SEMICONDUCTOR FIELD EFFECT TRANSISTOR DEVICE	PENDING	3/18/2008		Siliconix incorporated	025675/0001
UTL	11/023,327	7,344,945	METHOD OF MANUFACTURING A DRAIN SIDE GATE TRENCH METAL-OXIDE-SEMICONDUCTOR FIELD EFFECT TRANSISTOR	ISSUED	12/22/2004	3/18/2008	Siliconix incorporated	025675/0001
UTL	11/352,031		ADAPTIVE FREQUENCY COMPENSATION FOR DC-TO-DC CONVERTER	ALLOWED	2/10/2006		Siliconix incorporated	025675/0001
UTL	12/571,194		ADAPTIVE FREQUENCY COMPENSATION FOR DC-TO-DC CONVERTER	ALLOWED	9/30/2009		Siliconix incorporated	025675/0001
UTL	11/386,927		ULTRA-LOW DRAIN-SOURCE RESISTANCE POWER MOSFET	ALLOWED	3/21/2006		Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	12/069,712		ULTR-LOW DRAIN-SOURCE RESISTANCE POWER MOSFET	PENDING	2/11/2008		Siliconix incorporated	025675/0001
UTL	11/799,889		POWER MOSFET CONTACT METALLIZATION	PENDING	5/2/2007		Siliconix incorporated	025675/0001
UTL	11/373,630		NARROW SEMICONDUCTOR TRENCH STRUCTURE	PENDING	3/9/2006		Siliconix incorporated	025675/0001
UTL	12/030,809		NARROW SEMICONDUCTOR TRENCH STRUCTURE	PENDING	2/13/2008		Siliconix incorporated	025675/0001
UTL	11/190,682	7,583,485B1	ELECTROSTATIC DISCHARGE PROTECTION CIRCUIT FOR INTEGRATED CIRCUITS	ISSUED	7/26/2005	9/1/2009	Siliconix incorporated	025675/0001
UTL	12/552,205		ELECTROSTATIC DISCHARGE PROTECTION CIRCUIT FOR INTEGRATED CIRCUITS	PENDING	9/1/2009		Siliconix incorporated	025675/0001
UTL	11/710,041		PROCESS FOR FORMING A SHORT CHANNEL TRENCH MOSFET AND DEVICE FORMED THEREBY	PENDING	2/23/2007		Siliconix incorporated	025675/0001
UTL	11/322,040	7,544,545B2	TRENCH POLYSILICON DIODE	ISSUED	12/28/2005	6/9/2009	Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	12/009,379	7,612,431B2	TRENCH POLYSILICON DIODE	ISSUED	1/17/2008	11/3/2009	Siliconix incorporated	025675/0001
UTL	12/611,865		TRENCH POLYSILICON DIODE	PENDING	11/3/2009		Siliconix incorporated	025675/0001
UTL	12/098,950		TRENCH METAL OXIDE SEMICONDUCTOR WITH RECESSED TRENCH MATERIAL AND REMOTE CONTACTS	PENDING	4/7/2008		Siliconix incorporated	025675/0001
UTL	11/651,258		HIGH-DENSITY POWER MOSFET WITH PI,ANARIZED METALIZATION	PENDING	1/8/2007		Siliconix incorporated	025675/0001
UTL	11/479,671		POWER MANAGEMENT SYSTEM IMPLEMENTED IN A SINGLE, SURFACE MOUNT PACKAGE	PENDING	6/30/2006		Siliconix incorporated	025675/0001
UTL	12/779,815		COMPLETE POWER MANAGEMENT SYSTEM IMPLEMENTED IN A SINGLE SURFACE MOUNT PACKAGE	PENDING	5/13/2010		Siliconix incorporated	025675/0001
UTL	11/479,619		POWER MANAGEMENT SYSTEM IMPLEMENTED IN A SINGLE SURFACE MOUNT PACKAGE	PENDING	6/30/2006		Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	11/644,553		HIGH MOBILITY POWER METAL-OXIDE SEMICONDUCTOR FIELD-EFFECT TRANSISTORS	PENDING	12/22/2006		Siliconix incorporated	025675/0001
UTL	12/123,664		HIGH MOBILITY POWER METAL-OXIDE SEMICONDUCTOR FIELD-EFFECT TRANSISTORS	ALLOWED	5/20/2008		Siliconix incorporated	025675/0001
UTL	11/655,493		FLOATING GATE STRUCTURE WITH HIGH ELECTROSTATIC DISCHARGE PERFORMANCE	PENDING	1/18/2007		Siliconix incorporated	025675/0001
UTL	11/823,375		A CURRENT MODE BOOST CONVERTER USING SLOPE COMPENSATION	PENDING	6/26/2007		Siliconix incorporated	025675/0001
UTL	12/015,723		SELF-ALIGNED TRENCH MOSFET AND METHOD OF MANUFACTURE	PENDING	1/17/2008		Siliconix incorporated	025675/0001
UTL	12/030,719		SELF-REPAIRING FIELD EFFECT TRANSISTOR	PENDING	2/13/2008		Siliconix incorporated	025675/0001
UTL	12/203,846		MOSFET ACTIVE AREA AND EDGE TERMINATION CHARGE BALANCE	PENDING	9/3/2008		Siliconix incorporated	025675/0001
UTL	12/119,367		HIGH CURRENT DENSITY POWER FIELD EFFECT TRANSISTOR	PENDING	5/12/2008		Siliconix incorporated	025675/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	12/603,028		SPLIT GATE SEMICONDUCTOR DEVICE WITH CURVED GATE OXIDE PROFILE	PENDING	10/21/2009		Siliconix incorporated	025675/0001
UTL	12/548,841		SUPER JUNCTION TRENCH POWER MOSFET DEVICES	PENDING	8/27/2009	8/27/2009	Siliconix incorporated	025675/0001
UTL	12/549,190		SUPER JUNCTION TRENCH POWER MOSFET DEVICE FABRICATION	PENDING	8/27/2009		Siliconix incorporated	025675/0001
UTL	12/873,147		SYSTEM AND METHOD FOR SUBSTRATE WAFER BACK SIDE AND EDGE CROSS SECTION SEALS	PENDING	8/31/2010		Siliconix incorporated	025675/0001
UTL	12/829,247		POWER SWITCH WITH ACTIVE SNUBBER	PENDING	7/1/2010		Siliconix incorporated	025675/0001
UTL	12/610,148		SEMICONDUCTOR DEVICE WITH TRENCH-LIKE FEED-THROUGHS	PENDING	10/30/2009		Siliconix incorporated	025675/0001
UTL	61/257,362		TRANSISTOR STRUCTURE WITH FEED THROUGH SOURCE-TO - SUBSTRATE CONTACT	PENDING	11/02/2009		Siliconix incorporated	025675/0001
UTL	12/824,075		FIELD BOOSTED METAL-OXIDE-SEMICONDUCTOR FIELD EFFECT TRANSISTOR	PENDING	6/25/2010		Siliconix incorporated	025675/0001

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REEL: 006695 FRAME: 0295

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	12/869,554		STRUCTURES OF AND METHODS OF FABRICATING SPLIT GATE MIS DEVICES	PENDING	8/26/2010		Siliconix incorporated	025675/0001
UTL	12/788,158		SUPER-HIGH DENSITY POWER TRENCH MOSFET	PENDING	5/26/2010		Siliconix incorporated	025675/0001
UTL	12/730,230		SEMICONDUCTOR PACKAGES INCLUDING DIE AND L-SHAPED LEAD AND METHOD OF MANUFACTURING	PENDING	3/24/2010		Siliconix incorporated	025675/0001
UTL	61/309,824		STRUCTURES OF AND METHODS OF FABRICATING DUAL GATE MIS DEVICES	PENDING	3/02/2010		Siliconix incorporated	025675/0001
UTL	10/146,539	7,186,609	METHOD OF FABRICATING TRENCH JUNCTION BARRIER ERCTIFIER	ISSUED	5/14/2002	3/6/2007	Siliconix incorporated	025675/0001
UTL	09/428,299	6,348,712	HIGH DENSITY TRENCH-GATED POWER MOSFET	ISSUED	10/27/1999	2/19/2002	Siliconix incorporated	025675/0001
UTL	10/264,816	6,921,697	METHOD FOR MAKING TRENCH MIS DEVICE WITH REDUCED GATE-TO-DRAIN CAPACITANCE	ISSUED	10/03/2002	07/26/2005	Siliconix incorporated	025675/0001
UTL	11/373,630		NARROW SEMICONDUCTOR TRENCH STRUCTURE	PENDING	3/9/2006		Siliconix incorporated	031170/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	11/479,619		POWER MANAGEMENT SYSTEM IMPLEMENTED IN A SINGLE SURFACE MOUNT PACKAGE	PENDING	6/30/2006		Siliconix incorporated	031170/0001
UTL	11/582,755		CHIP SCALE SCHOTTKY DEVICE	ALLOWED	5/11/2011		Siliconix incorporated	031170/0001
UTL	11/644,553		HIGH MOBILITY POWER METAL-OXIDE SEMICONDUCTOR FIELD-EFFECT TRANSISTORS	PENDING	12/22/2006		Siliconix incorporated	031170/0001
UTL	11/651,258		HIGH-DENSITY POWER MOSFET WITH PLANARIZED METALIZATION	PENDING	1/8/2007		Siliconix incorporated	031170/0001
UTL	13/039,098		STRUCTURES OF AND METHODS OF FABRICATING DUAL GATE DEVICES	PENDING	3/2/2011		Siliconix incorporated	031170/0001
UTL	13/229,667		DUAL LEAD FRAME SEMICONDUCTOR PACKAGE AND METHOD OF MANUFACTURE	PENDING	9/9/2011		Siliconix incorporated	031170/0001
UTL	13/308,375		TRENCH POLYSILICON DIODE	PENDING	11/30/2011		Siliconix incorporated	031170/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	13/370,243		STRUCTURES OF AND METHODS OF FABRICATING POWERMOS WITH TERMINATION TRENCH HAVING THICK OXIDE FOR THE HIGH BDdss	FILED	2/9/2012		Siliconix incorporated	031170/0001
UTL	13/460,567		HYBRID SPLIT GATE SEMICONDUCTOR	PENDING	4/30/2012		Siliconix incorporated	031170/0001
UTL	13/460,600		METHOD OF FORMING A HYBRID SPLIT GATE SEMICONDUCTOR	PENDING	4/30/2012		Siliconix incorporated	031170/0001
UTL	13/475,255		SEMICONDUCTOR DEVICE HAVING REDUCED GATE CHARGES AND SUPERIOR FIGURE OF MERIT	PENDING	5/18/2012		Siliconix incorporated	031170/0001
UTL	13/478,037		STACKED TRENCH METAL-OXIDE SEMICONDUCTOR FIELD EFFECT TRANSISTOR DEVICE	PENDING	5/22/2012		Siliconix incorporated	031170/0001
UTL	13/484,114		ADAPTIVE CHARGE BALANCED EDGE TERMINATION	PENDING	5/30/2012		Siliconix incorporated	031170/0001
UTL	13/551,516		CURRENT MODE BOOST CONVERTER USING SLOPE COMPENSATION	PENDING	7/17/2012		Siliconix incorporated	031170/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	13/565,672		PREVENTING REVERSE CONDUCTION	PENDING	8/2/2012		Siliconix incorporated	031170/0001
UTL	13/622,322		HIGH CURRENT DENSITY POWER FIELD EFFECT TRANSISTOR	PENDING	9/18/2012		Siliconix incorporated	031170/0001
UTL	13/622,997		BREAKDOWN VOLTAGE BLOCKING DEVICE	PENDING	9/19/2012		Siliconix incorporated	031170/0001
UTL	13/654,230		POWER MOSFET CONTACT METALIZATION	PENDING	10/17/2012		Siliconix incorporated	031170/0001
UTL	13/728,997		TRENCH METAL OXIDE SEMICONDUCTOR WITH RECESSED TRENCH MATERIAL AND REMOTE CONTACTS	PENDING	12/27/2012		Siliconix incorporated	031170/0001
UTL	13/732,284		ADAPTIVE CHARGE BALANCED MOSFET TECHNIQUES	PENDING	12/31/2012		Siliconix incorporated	031170/0001
UTL	13/829,623		POWER MOSFET PACKAGE WITH STACK DIE, LDMOS DIE STRUCTURE, FLIP CHIP ON LEADFRAME AND SOURCE, DRAIN AND GATE CLIPS	PENDING	3/14/2013		Siliconix incorporated	031170/0001
UTL	13/830,041		METHOD OF FABRICATING STACKED DIE PACKAGE	PENDING	3/14/2013		Siliconix incorporated	031170/0001

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Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	13/867,964		CURRENT LIMITING SYSTEMS AND METHODS	PENDING	4/22/2013		Siliconix incorporated	031170/0001
UTL	08/487,789	5,925,411	GAS-BASED SUBSTRATE DEPOSITION PROTECTION	ISSUED	6/7/1995	7/20/1999	Siliconix incorporated	031170/0001

(b) U.S. Trademarks and Trademark Applications

Trademark	Legal Owner	Country	Reg.#	Reg. Date	Reel/Frame
CHIPFET	Siliconix incorporated	United States	2696001	3/11/2003	004453/0500
LITTLE FOOT	Siliconix incorporated	United States	1727230	10/27/1992	004453/0500
MICRO FOOT	Siliconix incorporated	United States	2701037	3/25/2003	004453/0500
POLARPAK	Siliconix incorporated	United States	2990388	8/30/2005	004453/0500
POWERPAIR	Siliconix incorporated	United States	3732445	12/29/2009	004453/0500
SI STYLIZED	Siliconix incorporated	United States	3087499	5/2/2006	004453/0500
SKYFET	Siliconix incorporated	United States	3469285	7/15/2008	004453/0500
TRENCHFET	Siliconix incorporated	United States	2035560	2/4/1997	004453/0500
POWERPAK	Siliconix incorporated	United States	2672428	1/7/2003	004453/0500
TurboFET	Siliconix incorporated	United States	3759042	3/9/2010	004453/0500
FLIPKY	Vishay Siliconix Technology C.V.	United States	3,073,909	3/28/2006	004453/0500
HEXFRED	Vishay Siliconix Technology C.V.	United States	1,753,724	2/23/1993	004453/0500
POWERTAB	Vishay Siliconix Technology C.V. composed of Siliconix incorporated, General Partner, Siliconix Semiconductor, Inc. and Vishay Siliconix LLC	United States	3,704,345	11/3/2009	004453/0500
FRED PT	Vishay Siliconix Technology C.V. composed of Siliconix incorporated, General Partner, Siliconix Semiconductor, Inc. and Vishay Siliconix LLC	United States	3,662,946	8/4/2009	004453/0500
MICROBUCK	Siliconix incorporated	United States	77/900,236	12/23/2009	004453/0500
VRPower	Siliconix incorporated	United States	77/896,876	12/18/2009	004453/0500

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Trademark	Legal Owner	Country	Reg.#	Reg. Date	Reel/Frame
THUNDERFET	Siliconix incorporated	United States	77/945,647	Filed 2/26/2010	004453/0500
MICROBUCK	Siliconix incorporated	United States	3.929,833	12/2/1975	5105/0896
SILICONIX	Siliconix incorporated	United States	4,053,107	11/8/2011	5105/0896
THUNDERFET	Siliconix incorporated	United States	4,060,661	11/22/2011	5105/0896
VRPower	Siliconix incorporated	United States	4,198,891	8/28/2012	5105/0896

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REEL: 006695 FRAME: 0301

TRADEMARK
REEL: 006695 FRAME: 0302

Patents and Trademarks of Vishay Sprague, Inc.

(a) U.S. Patent Registrations and Patent Applications

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	09/441,434	6,184,775	SURFACE MOUNT RESISTOR	ISSUED	11/16/1999	2/6/2001	Vishay Sprague, Inc.	025675/0001
UTL	10/091,792	6,859,999	METHOD FOR MANUFACTURING A POWER CHIP RESISTOR	ISSUED	3/6/2002	3/1/2005	Vishay Techno Components, LLC	025675/0001
UTL	09/074,185	6,159,817	MULTI-TAP THIN FILM INDUCTOR	ISSUED	5/7/1998	12/12/2000	Vishay EFI, Inc.	025675/0001
UTL	11/759,523		CERAMIC DIELECTRIC FORMULATION FOR BROAD BAND UHF ANTENNA	PUBLISHED	6/7/2007		Vishay Sprague, Inc.	025675/0001
UTL	11/266,915	7,449,032	METHOD OF MANUFACTURING SURFACE MOUNT CAPACITOR	ISSUED	11/4/2005	11/11/2008	Vishay Sprague, Inc.	025675/0001
UTL	11/359,711	7,336,475	HIGH VOLTAGE CAPACITORS	ISSUED	2/22/2006	2/26/2008	Vishay Vitramon, Inc.	025675/0001
UTL	11/293,673	7,283,350	SURFACE MOUNT CHIP CAPACITOR	ISSUED	12/2/2005	10/16/2007	Vishay Sprague, Inc.	025675/0001
UTL	11/264,977	7,221,555	SURFACE MOUNT CHIP CAPACITOR	ISSUED	11/2/2005	5/22/2007	Vishay Sprague, Inc.	025675/0001
UTL	11/266,632	7,179,309	SURFACE MOUNT CHIP CAPACITOR	ISSUED	11/3/2005	2/20/2007	Vishay Sprague, Inc.	025675/0001
UTL	11/259,503	7,167,357	SURFACE MOUNT MELF CAPACITOR	ISSUED	10/26/2005	1/23/2007	Vishay Sprague, Inc.	025675/0001
UTL	11/132,116	7,161,797	SURFACE MOUNT CAPACITOR AND METHOD OF MAKING SAME	ISSUED	5/17/2005	1/9/2007	Vishay Sprague, Inc.	025675/0001
UTL	10/792,138	7,088,573	SURFACE MOUNT MELF CAPACITOR	ISSUED	3/2/2004	8/8/2006	Vishay Sprague, Inc.	025675/0001

Type	Serial No.	Patent No.	Title: (Patent Description)	Status	File Date	Issue Date	Domestic Loan Party	Reel/Frame
UTL	10/792,639	7,085,127	SURFACE MOUNT CHIP CAPACITOR	ISSUED	3/2/2004	8/1/2006	Vishay Sprague, Inc.	025675/0001
UTL	10/792,135	6,914,770	SURFACE MOUNT FLIPCHIP CAPACITOR	ISSUED	3/2/2004	7/5/2005	Vishay Sprague, Inc.	025675/0001
UTL	09/758,800	6,541,302	METHOD OF FORMING TERMINATION ON CHIP COMPONENTS	ISSUED	1/11/2001	4/1/2003	Vishay Sprague, Inc.	025675/0001
UTL	12/759,769		HERMETICALLY SEALED WET ELECTROLYTIC CAPACITOR	PUBLISHED	4/14/2010		Vishay Sprague, Inc.	025675/0001
UTL	12/107,349		FRAME PACKAGED ARRAY ELECTRONIC COMPONENT	PUBLISHED	4/22/2008		Vishay Sprague, Inc.	025675/0001
UTL	12/189,492		HIGH VOLTAGE CAPACITORS	PUBLISHED	8/11/2008		Vishay Sprague, Inc.	025675/0001
UTL	12/052,251		ELECTROPHORETIC ALLY DEPOSITED CATHODE CAPACITOR	PUBLISHED	3/20/2008		Vishay Sprague, Inc.	025675/0001
UTL	12/189,465		HIGH VOLTAGE CAPACITORS	PUBLISHED	8/11/2008		Vishay Sprague, Inc.	025675/0001
UTL	12/553,508		BULK CAPACITOR AND METHOD	PUBLISHED	9/3/2009		Vishay Sprague, Inc.	025675/0001
UTL	07/677,203	5,099,397	FUZED SOLID ELECTROLYTE CAPACITOR	ISSUED	3/29/1991	3/24/1992	Sprague Electric Company	025675/0001
UTL	07/677,204	5,053,927	MOLDED FUZED SOLID ELECTROLYTE CAPACITOR	ISSUED	3/29/1991	10/1/1991	Sprague Electric Company	025675/0001

TRADEMARK
REEL: 006695 FRAME: 0303

(b) **U.S. Trademarks and Trademark Applications**

Trademark	Legal Owner	Country	Reg.#	Reg. Date	Reel/Frame
HVARC GUARD	Vishay Sprague, Inc.	United States	3256019	6/26/2007	004453/0500
MICROTAN	Vishay Sprague, Inc.	United States	3526660	11/4/2008	004453/0500
SPECTROL	Vishay Thin Film, LLC	United States	858837	10/22/1968	004453/0500
SPRAGUE	Vishay Sprague, Inc.	United States	859,975	11/12/1968	004453/0500
SUPERTAN	Vishay Sprague, Inc.	United States	1492049	6/14/1988	004453/0500
TANTAMOUNT	Vishay Sprague, Inc.	United States	1380243	1/28/1986	004453/0500
VITRAMON	Vishay Sprague, Inc.	United States	1238139	5/17/1983	004453/0500
VITRAMON	Vishay Sprague, Inc.	United States	839,908	3/10/1966	004453/0500
SPRAGUE	Vishay Sprague, Inc.	United States	3762167	3/23/2016	004453/0500
CERA-MITE	Vishay Sprague, Inc.	United States	2126097	3/7/2000	004453/0500

TRADEMARK
REEL: 006695 FRAME: 0304
RECORDED: 07/17/2019