PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT7260974

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CURRENT LIGHTING SOLUTIONS, LLC (FKA - GE LIGHTING SOLUTIONS, LLC)	02/24/2020

RECEIVING PARTY DATA

Name:	CONSUMER LIGHTING, LLC
Street Address:	1975 NOBLE ROAD
City:	EAST CLEVELAND
State/Country:	OHIO
Postal Code:	44112

PROPERTY NUMBERS Total: 68

Property Type	Number
Patent Number:	6481874
Patent Number:	6805458
Patent Number:	6799864
Patent Number:	6787999
Patent Number:	7479662
Patent Number:	9944519
Patent Number:	7224000
Patent Number:	7800121
Patent Number:	8362695
Patent Number:	8436380
Patent Number:	10309587
Patent Number:	10340424
Patent Number:	8322889
Patent Number:	9954145
Patent Number:	10422484
Patent Number:	9618165
Patent Number:	9360166
Patent Number:	8541933
Patent Number:	9951938
Patent Number:	8668356

Property Type	Number
Patent Number:	10240772
Patent Number:	8480257
Patent Number:	8672516
Patent Number:	8835199
Patent Number:	8414151
Patent Number:	9127816
Patent Number:	8608347
Patent Number:	9416952
Patent Number:	9730294
Patent Number:	9464784
Patent Number:	8992052
Patent Number:	9188312
Patent Number:	9767522
Patent Number:	9841175
Patent Number:	9500355
Patent Number:	9587820
Patent Number:	9125271
Patent Number:	9612002
Patent Number:	9303846
Patent Number:	9664343
Patent Number:	9506624
Patent Number:	10196565
Patent Number:	10001256
Patent Number:	9401468
Patent Number:	10139095
Patent Number:	9970629
Patent Number:	9841167
Patent Number:	9642218
Patent Number:	9462656
Patent Number:	9668307
Patent Number:	10197230
Patent Number:	9970646
Intl Reg Number:	DM/668362
Intl Reg Number:	DM/668361
Intl Reg Number:	DM/660991
Intl Reg Number:	DM/691745
Intl Reg Number:	DM/695927
Intl Reg Number:	DM/674927

Property Type	Number
Intl Reg Number:	DM/732709
Intl Reg Number:	DM/732710
Intl Reg Number:	DM/794837
Intl Reg Number:	DM/732717
Intl Reg Number:	DM/741519
Intl Reg Number:	DM/756544
Intl Reg Number:	DM/785821
Intl Reg Number:	DM/794839
Intl Reg Number:	DM/808547
Intl Reg Number:	DM/791984

CORRESPONDENCE DATA

Fax Number:

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: 240.477.8581

Email: tthomas@woodiplaw.com, uspto@dockettrak.com, docketing@woodiplaw.com

Correspondent Name: WOOD IP LLC

Address Line 1: 555 QUINCE ORCHARD ROAD

Address Line 2: SUITE 280

Address Line 4: GAITHERSBURG, MARYLAND 20878

ATTORNEY DOCKET NUMBER:	GE ASSIGNMENTS 2
NAME OF SUBMITTER:	TAMMI THOMAS
SIGNATURE:	/TAMMI THOMAS/
DATE SIGNED:	04/04/2022

Total Attachments: 60

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AMENDED AND RESTATED PATENT ASSIGNMENT AGREEMENT

This Amended and Restated Patent Assignment Agreement (the "Assignment"), effective as of April 1, 2019, is by and between Current Lighting Solutions, LLC (fka GE Lighting Solutions, LLC), a Delaware Limited Liability Company, having an office at 1975 Noble Rd. Building 338, Nela Park, East Cleveland, Ohio 44112 ("Assignor") and Consumer Lighting (U.S.) LLC, a Delaware Limited Liability Company, having an office at 1975 Noble Road, East Cleveland, Ohio 44112, ("Assignee").

WHEREAS, Assignor is the owner of certain intellectual property listed on the attached Schedules A and B (the "Assigned Patent Applications");

WHEREAS, General Electric Company and Espresso Holdco, Inc. entered into that certain Stock and Asset Purchase Agreement dated as of November 5, 2018 ("Purchase Agreement");

WHEREAS, in furtherance of the transactions contemplated by the Purchase Agreement, the parties thereto have agreed to cause Assignor to assign to Assignee the Assigned Patent Applications, and all right, title and interest in and to the Assigned Patent Registrations, and the parties wish to record such assignment in the respective Patent Offices; and

WHEREAS, the Parties wish to amend and restate their agreement with respect to the Assigned Patent Applications.

NOW, THEREFORE, in consideration of the sum of US$10 (ten US Dollars) and other good and valuable consideration paid by the Assignee to the Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor and Assignee agree as follows:

1. Assignment of Patent Applications. Effective as of the date hereof, Assignor sells, transfers, conveys, assigns and delivers to Assignee and Assignee accepts all right, title and interest in and to (i) the Assigned Patent Applications; (ii) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages, claims, and payments for past and future infringements thereof; (iii) all rights to sue for past, present, and future infringements of the foregoing, including the right to settle suits involving claims and demands for royalties owing; and (iv) the right to assign the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit, and for the benefit of its successors, assigns, and legal representatives.

2. Additional Documents. Assignor shall execute any other documents as may be reasonably required to carry out the purposes of the Assignment.
3. Successors. This Assignment shall inure to the benefit of and is binding upon the respective successors and assigns of Assignor and Assignee.
4. Governing Law. This Assignment shall be governed by and construed in accordance with (i) the laws of the United States, in respect to patent issues, and (ii) in all other respects, including as to validity (except for patent issues), interpretation and effect, by the laws of the State of New York.
5. Counterparts. This Assignment may be executed in separate counterparts, each of which is deemed to be an original and all of which taken together constitute one and the same agreement.
6. Miscellaneous. This Assignment is subject to all the terms and conditions of the Purchase Agreement. The parties intend that this Assignment is for recordation purposes only and its terms shall not modify the applicable terms and conditions of the Purchase Agreement.

IN WITNESS WHEREOF, Assignor and Assignee caused this Assignment to be duly executed as of the date first written above.

CURRENT LIGHTING SOLUTIONS, LLC

By: _____

Its: Executive Senior Counsel

Date: Feb. 24, 2020

STATE OF _____

COUNTY OF_____

Before me, the undersigned authority, on this _____ day of _____ 2020, personally appeared _____known to me as the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed, in the capacity state, and with authority to act in this assignment on behalf of the Assignee.

ACCEPTED

CONSUMER SOLUTIONS (U.S.), LLC

By: _____

Its: Vice President

Date: February 21, 2020

STATE OF CONNECTICUT

COUNTY OF FAIRFIELD

Before me, the undersigned authority, on this 21st day of February 2020, personally appeared Victoria Vron known to me as the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purposes and consideration therein expressed, in the capacity state, and with authority to act in this assignment on behalf of the Assignee.

_____
Notary Public

_____
Signature of Notary

(Legibly Print or Stamp Name of Notary)

Schedule A-Patents & Patent Applications

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Issued	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	ORD-UTILITY PATENT FILING	09/681400	3/29/2001	11/19/2002	US6481874
CN	Issued	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	ORD-UTILITY PATENT FILING	2809084.5	3/29/2002	4/25/2007	CN02809084.5
DE	Issued	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	EPC-EUROPEAN PATENT CONVENTION	2721632.4	3/29/2002	6/13/2007	EP1374319
GB	Issued	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	EPC-EUROPEAN PATENT CONVENTION	2721632.4	3/29/2002	6/13/2007	EP1374319
US	Issued	NIGHT LIGHT FOR PLUMBING FIXTURES	ORD-UTILITY PATENT FILING	10/064772	8/15/2002	10/19/2004	US6805458
US	Issued	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	ORD-UTILITY PATENT FILING	10/063924	5/24/2002	10/5/2004	US6799864
FR	Issued	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	EPP-EUROPEAN PATENT - PCT ORIGINATED	2739450	11/17/2003	8/24/2016	EP1393374
CN	Issued	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	PCT-PATENT COOPERATION TREATY	2812366.2	5/24/2002	8/5/2009	CN02812366.2
JP	Issued	LED POWER PACK FOR SPOT MODULE ILLUMINATION	PCT-PATENT COOPERATION TREATY	2003-500968	11/23/2006	2/5/2010	JP4452495
EP	Filed	LED POWER PACK FOR SPOT MODULE ILLUMINATION	DIV-DIVISIONAL FILING	10171923.5	8/4/2010		
IT	Issued	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	EPP-EUROPEAN PATENT - PCT ORIGINATED	502016000112354	11/17/2003	8/24/2016	EP1393374

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
GB	Issued	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	EPP-EUROPEAN PATENT - PCT ORIGINATED	2739450	11/17/2003	8/24/2016	EP1393374
US	Issued	VARIABLE OPTICS SPOT MODULE	PRI-PRIORITY APPLICATION	09/682535	9/17/2001	8/10/2004	US6773139
DE	Issued	ZOOMABLE SPOT MODULE	EPC-EUROPEAN PATENT CONVENTION	2766298	9/17/2002	1/10/2007	EP1427962
GB	Issued	ZOOMABLE SPOT MODULE	EPC-EUROPEAN PATENT CONVENTION	2766298	9/17/2002	1/10/2007	EP1427962
US	Issued	LED-BASED MODULAR LAMP	PRI-PRIORITY APPLICATION	10/065320	10/3/2002	9/7/2004	US6787999
DE	Issued	LED-BASED MODULAR LAMP	EPC-EUROPEAN PATENT CONVENTION	3754619.9	9/19/2003	2/28/2018	EP1547447
JP	Issued	LED-BASED MODULAR LAMP	ORD-UTILITY PATENT FILING	2004-543297	9/19/2003	10/21/2009	JP4350648
CN	Issued	LED-BASED MODULAR LAMP	PCT-PATENT COOPERATION TREATY	3823757.1	4/4/2005	11/28/2012	CN03823757.1
GB	Issued	COATED LED WITH IMPROVED EFFICIENCY	EPC-EUROPEAN PATENT CONVENTION	3751945.1	8/29/2003	11/11/2009	EP1540746
IT	Issued	COATED LED WITH IMPROVED EFFICIENCY	EPC-EUROPEAN PATENT CONVENTION	502010901806259	8/29/2003	11/11/2009	EP1540746
NL	Issued	COATED LED WITH IMPROVED EFFICIENCY	EPC-EUROPEAN PATENT CONVENTION	3751945.1	8/29/2003	11/11/2009	EP1540746
ES	Issued	COATED LED WITH IMPROVED EFFICIENCY	EPC-EUROPEAN PATENT CONVENTION	3751945.1	8/29/2003	11/11/2009	EP1540746
JP	Filed	COATED LED WITH IMPROVED EFFICIENCY	PCT-PATENT COOPERATION TREATY	2004-532037	8/29/2003		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
EP	Filed	COATED LED WITH IMPROVED EFFICIENCY	DIV-DIVISIONAL FILING	8004649.3	3/13/2008		
US	Issued	COATED LED WITH IMPROVED EFFICIENCY	REI-REISSUE	90/011805	7/22/2011	10/17/2013	US7479662
US	Issued	COATED LED WITH IMPROVED EFFICIENCY	PCT-PATENT COOPERATION TREATY	10/525697	3/23/2006	1/10/2009	US7479662
KR	Issued	COATED LED WITH IMPROVED EFFICIENCY	PCT-PATENT COOPERATION TREATY	2005-7003453	8/29/2003	9/19/2006	KR622209
AU	Issued	COATED LED WITH IMPROVED EFFICIENCY	PCT-PATENT COOPERATION TREATY	2003270052	3/1/2005	6/4/2009	AU2003270052
CN	Issued	COATED LED WITH IMPROVED EFFICIENCY	PCT-PATENT COOPERATION TREATY	3824703.8	8/29/2003	3/11/2009	CN100468791C
BE	Issued	COATED LED WITH IMPROVED EFFICIENCY	EPP-EUROPEAN PATENT - PCT ORIGINATED	3751945.1	8/29/2003	11/11/2009	EP1540746
FR	Issued	COATED LED WITH IMPROVED EFFICIENCY	EPC-EUROPEAN PATENT CONVENTION	3751945.1	8/29/2003	11/11/2009	EP1540746
DE	Issued	COATED LED WITH IMPROVED EFFICIENCY	EPC-EUROPEAN PATENT CONVENTION	3751945.1	8/29/2003	11/11/2009	EP1540746
EP	Filed	LED-BASED LIGHT BULB	PCT-PATENT COOPERATION TREATY	4751681	11/25/2005		
EP	Filed	LED-BASED LIGHT BULB	DIV-DIVISIONAL FILING	12166294.4	5/1/2012		
JP	Issued	LED-BASED LIGHT BULB	DIV-DIVISIONAL FILING	2011-110613	5/17/2011	10/2/2015	JP5815982
US	Filed	LED-BASED LIGHT BULB	PCT-PATENT COOPERATION TREATY	10/555721	4/2/2007		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CN	Issued	LED-BASED LIGHT BULB	PCT-PATENT COOPERATION TREATY	200480015673.9	5/5/2004	11/24/2010	CN1802533
US	Filed	LED-BASED LIGHT BULB	CON-CONTINUATION	13/424785	3/20/2012		
US	Filed	LED-BASED LIGHT BULB	CIP-CONTINUATION IN PART	13/424805	3/20/2012		
US	Issued	LED-BASED LIGHT BULB	CON-CONTINUATION	13/424835	3/20/2012	4/17/2018	US9944519
CN	Issued	LED-BASED SPECIALTY LIGHT BULB	DIV-DIVISIONAL FILING	201010226198.7	5/5/2004	10/30/2013	CN101915365
JP	Issued	LED-BASED LIGHT BULB	PCT-PATENT COOPERATION TREATY	2006-514328	11/4/2005	6/27/2014	JP5566564
US	Issued	PIEZOFAN AND HEAT SINK SYSTEM FOR ENHANCED HEAT TRANSFER	ORD-UTILITY PATENT FILING	11/531170	9/12/2006	12/4/2012	US8322889
US	Filed	White LEDs with enhanced color contrast	CON-CONTINUATION	14/295486	6/4/2014		
WO	Filed	LED LAMP	ORD-UTILITY PATENT FILING	US11/55185	10/7/2011		
CN	Issued	LED LAMP	PCT-PATENT COOPERATION TREATY	201180054064.4	5/9/2013	8/31/2016	CN103180659
DE	Issued	LED LAMP	EPP-EUROPEAN PATENT - PCT ORIGINATED	11779260.6	5/15/2013	6/29/2016	EP2638318
NL	Issued	LED LAMP	EPP-EUROPEAN PATENT - PCT ORIGINATED	11779260.6	5/15/2013	6/29/2016	EP2638318
GB	Issued	LED LAMP	EPP-EUROPEAN PATENT - PCT ORIGINATED	11779260.6	5/15/2013	6/29/2016	EP2638318

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Filed	LED LAMP WITH UNIFORM OMNIDIRECTIONAL LIGHT INTENSITY OUTPUT	CON-CONTINUATION	15/158978	5/19/2016		
CN	Filed	LED lamp having a spherical diffuser	DIV-DIVISIONAL FILING	2016109308322	10/31/2016		
CN	Filed	LED lamp having a spherical diffuser	PCT-PATENT COOPERATION TREATY	201080054756.4	6/1/2012		
US	Issued	LED LAMP WITH UNIFORM OMNIDIRECTIONAL LIGHT INTENSITY OUTPUT	CON-CONTINUATION	14/205542	3/12/2014	4/11/2017	US9618165
US	Issued	LED lamp having a spherical diffuser	CON-CONTINUATION	14/183013	2/18/2014	6/7/2016	US9360166
BR	Filed	LED lamp having a spherical diffuser	PCT-PATENT COOPERATION TREATY	112012011011-0	10/1/2010		
EP	Filed	LED lamp having a spherical diffuser	PCT-PATENT COOPERATION TREATY	10821324	5/1/2012		
KR	Filed	LED lamp having a spherical diffuser	PCT-PATENT COOPERATION TREATY	1020127011454	5/2/2012		
MX	Issued	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	PCT-PATENT COOPERATION TREATY	MX/a/2012/008009	7/9/2012	4/28/2016	MX338717
JP	Issued	Transparent Heat Fins - Transparent Thermally Conductive Polymer Composites For Light Source Thermal Management	DIV-DIVISIONAL FILING	2015-212729	10/29/2015	9/6/2017	JP6193330
MX	Filed	Transparent Heat Fins - Transparent Thermally Conductive Polymer Composites For Light Source Thermal Management	DIV-DIVISIONAL FILING	MX/a/2016/001608	2/4/2016	4/8/2017	MX349604
KR	Filed	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES	DIV-DIVISIONAL FILING	1020187004495	2/13/2018		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
		FOR LIGHT SOURCE THERMAL MANAGEMENT					
US	Issued	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	ORD-UTILITY PATENT FILING	12/979611	12/28/2010	9/24/2013	US8541933
EP	Filed	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	PCT-PATENT COOPERATION TREATY	11708124	7/25/2012		
BR	Filed	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	PCT-PATENT COOPERATION TREATY	112012017088-0	4/12/2016		
CN	Issued	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	PCT-PATENT COOPERATION TREATY	201180005962	7/12/2012	11/25/2015	CN201180005962.0
AU	Issued	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	PCT-PATENT COOPERATION TREATY	2011205461	7/31/2012	10/22/2015	AU2011205461
JP	Issued	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	PCT-PATENT COOPERATION TREATY	2012-548995	7/12/2012	5/12/2017	JP6139134
KR	Filed	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	PCT-PATENT COOPERATION TREATY	1020127020972	8/9/2012	4/10/2018	KR101847657
CN	Issued	Heatsink design for uniform optical output of a LED lamp with spherical diffuser	PCT-PATENT COOPERATION TREATY	201080054757.9	6/1/2012	10/7/2015	CN201080054757.9

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Filed	LED LAMP	CON-CONTINUATION	14/062317	10/24/2013	4/24/2018	US9951938
EP	Filed	Heatsink design for uniform optical output of a LED lamp with spherical diffuser	PCT-PATENT COOPERATION TREATY	10763295.2	5/2/2012		
KR	Filed	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	PCT-PATENT COOPERATION TREATY	1020127028368	10/30/2012		
TW	Issued	Opaque High Conduction Light Weight Heat Sinks	ORD-UTILITY PATENT FILING	100111435	3/31/2011	2/11/2017	TWI570380
DE	Issued	Opaque High Conduction Light Weight Heat Sinks	EPP-EUROPEAN PATENT - PCT ORIGINATED	11712382.8	10/23/2012	1/11/2017	DE602011034251.7
US	Issued	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	ORD-UTILITY PATENT FILING	12/979529	12/28/2010	3/11/2014	US8668356
CN	Issued	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	PCT-PATENT COOPERATION TREATY	201180027211.9	11/30/2012	5/11/2016	CN102939501
MX	Issued	Lightweight Heat Sinks and LED Lamps Employing Same	PCT-PATENT COOPERATION TREATY	MX/a/2012/011434	3/18/2011	1/22/2014	MX317382
BR	Filed	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	PCT-PATENT COOPERATION TREATY	112012025157-0	10/2/2012		
JP	Filed	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	PCT-PATENT COOPERATION TREATY	2013-502622	10/2/2012		
US	Appeal	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	ORD-UTILITY PATENT FILING	12/979476	12/28/2010		
CN	Filed	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	DIV-DIVISIONAL FILING	2018102156900	3/15/2018		
MX	Issued	Lightweight Heat Sinks and LED Lamps Employing Same	PCT-PATENT COOPERATION TREATY	MX/a/2012/011433	3/18/2011	1/20/2014	MX317299

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
NL	Issued	LED LAMP	EPP-EUROPEAN PATENT - PCT ORIGINATED	10861503	7/2/2013	11/30/2016	EP2659178
US	Issued	LED LAMP	ORD-UTILITY PATENT FILING	13/336392	12/23/2011	7/9/2013	US8480257
CN	Issued	LED LAMP	PCT-PATENT COOPERATION TREATY	201080070988.9	6/28/2013	10/12/2016	CN103261777
MX	Issued	LED LAMP	PCT-PATENT COOPERATION TREATY	MX/a/2013/007701	6/28/2013	10/6/2014	MX324190
KR	Filed	LED LAMP	PCT-PATENT COOPERATION TREATY	1020137016970	6/28/2013		
DE	Issued	LED LAMP	EPP-EUROPEAN PATENT - PCT ORIGINATED	10861503	7/2/2013	11/30/2016	DE602010038548.5
KR	Issued	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	PCT-PATENT COOPERATION TREATY	1020137009765	3/18/2011	12/8/2017	KR10-1809185
VN	Issued	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	PCT-PATENT COOPERATION TREATY	1201301341	3/18/2011	6/20/2017	VN17098
DE	Issued	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	EPP-EUROPEAN PATENT - PCT ORIGINATED	11713109.4	4/19/2013	4/27/2016	EP2622267
NL	Issued	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	EPP-EUROPEAN PATENT - PCT ORIGINATED	11713109.4	4/19/2013	4/27/2016	EP2622267
US	Issued	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	ORD-UTILITY PATENT FILING	12/979573	12/28/2010	3/18/2014	US8672516
CN	Issued	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	PCT-PATENT COOPERATION TREATY	201180057758.3	5/30/2013	3/29/2017	CN103238027
MX	Issued	LIGHTWEIGHT HEAT SINKS AND LED LAMPS	PCT-PATENT COOPERATION TREATY	MX/a/2013/003422	3/18/2011	11/27/2014	MX325708

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
BR	Filed	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	PCT-PATENT COOPERATION TREATY	112013007741-7	3/18/2011		
ID	Filed	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	PCT-PATENT COOPERATION TREATY	W00201301695	3/18/2011		
JP	Issued	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	PCT-PATENT COOPERATION TREATY	2013-531566	3/18/2011	10/2/2015	JP5815716
US	Issued	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	ORD-UTILITY PATENT FILING	13/187592	7/21/2011	9/16/2014	US8835199
TW	Issued	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	ORD-UTILITY PATENT FILING	100126837	7/28/2011	6/21/2017	TWI589033
EP	Filed	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	PCT-PATENT COOPERATION TREATY	11749600	1/25/2013		
JP	Issued	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	PCT-PATENT COOPERATION TREATY	2013-521870	1/25/2013	1/15/2016	JP5868404
KR	Filed	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	PCT-PATENT COOPERATION TREATY	1020137004798	2/26/2013		
CN	Issued	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE	PCT-PATENT COOPERATION TREATY	201180036888.9	1/28/2013	3/23/2016	CN103081567

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
		PHOSPHOR CONFIGURATION					
US	Issued	LIGHT EMITTING DIODE (LED) BASED LAMP	CIP-CONTINUATION IN PART	12/896314	10/1/2010	4/9/2013	US8414151
KR	Filed	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	PCT-PATENT COOPERATION TREATY	1020137018979	7/18/2013		
DE	Issued	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	EPP-EUROPEAN PATENT - PCT ORIGINATED	11811463.6	7/16/2013	4/15/2015	EP2665967
GB	Issued	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	EPP-EUROPEAN PATENT - PCT ORIGINATED	11811463.6	7/16/2013	4/15/2015	EP2665967
NL	Issued	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	EPP-EUROPEAN PATENT - PCT ORIGINATED	11811463.6	7/16/2013	4/15/2015	EP2665967
US	Issued	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	ORD-UTILITY PATENT FILING	13/323038	12/12/2011	9/8/2015	US9127816
CN	Issued	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	PCT-PATENT COOPERATION TREATY	201180065492.7	7/19/2013	8/10/2016	CN103354886
JP	Issued	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	PCT-PATENT COOPERATION TREATY	2013-550473	7/16/2013	12/18/2015	JP5855135
BR	Filed	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	PCT-PATENT COOPERATION TREATY	112013018378-0	7/18/2013		
MX	Issued	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	PCT-PATENT COOPERATION TREATY	MX/a/2013/008428	7/19/2013	11/20/2014	MX325568
IN	Filed	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	PCT-PATENT COOPERATION TREATY	5368/DELNP/2013	6/17/2013		
CN	Filed	COOLING SYSTEM AND ILLUMINATING DEVICE COMPRISING SAME	PRI-PRIORITY APPLICATION	201210260962.1	7/26/2012		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Issued	LAMP	PDS-PRIORITY DESIGN APPLICATION	29/404991	10/27/2011	10/2/2012	USD668362
US	Issued	LAMP	PDS-PRIORITY DESIGN APPLICATION	29/404955	10/27/2011	10/2/2012	USD668361
JP	Issued	LAMP	DES-DESIGN	2012-008926	4/17/2012	11/30/2012	JP1458769
MX	Issued	LAMP	DES-DESIGN	MX/f/2012/001322	4/27/2012	5/10/2013	MX38663
US	Issued	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	PRI-PRIORITY APPLICATION	13/189052	7/22/2011	12/17/2013	US8608347
US	Issued	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	CON-CONTINUATION	14/079992	11/14/2013	8/16/2016	US9416952
CA	Filed	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	PCT-PATENT COOPERATION TREATY	2852884	4/17/2014		
AU	Issued	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	DIV-DIVISIONAL FILING	2015246150	10/23/2015	9/21/2017	AU2015246150
US	Issued	LAMP	DES-DESIGN	29/397912	7/22/2011	5/29/2012	USD660991
CN	Issued	LAMP	DES-DESIGN	201230017702.2	1/20/2012	2/13/2013	CN201230017702.2
MX	Issued	LAMP	DES-DESIGN	MX/F/2012/000249	1/20/2012	3/14/2013	MX38269
EM	Issued	LAMP	ID-INTERNATIONAL DESIGN	1310809	1/20/2012	1/20/2012	EM1310809-0001

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Issued	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHT-EMITTING DIODES	PRI-PRIORITY APPLICATION	13/290589	11/7/2011	8/8/2017	US9730294
EP	Filed	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHTEMITTING DIODES	PCT-PATENT COOPERATION TREATY	12773479.6	5/9/2014		
CN	Filed	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHTEMITTING DIODES	PCT-PATENT COOPERATION TREATY	201280066241.5	7/7/2014		
KR	Filed	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHTEMITTING DIODES	PCT-PATENT COOPERATION TREATY	20147015329	6/5/2014		
US	Issued	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	PRI-PRIORITY APPLICATION	13/365949	2/3/2012	10/11/2016	US9464784
CN	Issued	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	PCT-PATENT COOPERATION TREATY	201380007897.4	8/1/2014	10/27/2017	CN104145158
EP	Filed	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	PCT-PATENT COOPERATION TREATY	13705865.7	7/28/2014		
NZ	Filed	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	PCT-PATENT COOPERATION TREATY	627462	7/28/2014		
CA	Filed	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	PCT-PATENT COOPERATION TREATY	2862702	7/24/2014		
NZ	Issued	Non-imaging Fresnel lens for LED lamps	DIV-DIVISIONAL FILING	720860	6/3/2016	3/23/2018	NZ720860
AU	Issued	Non-imaging Fresnel lens for LED lamps	DIV-DIVISIONAL FILING	2016204281	6/23/2016	10/19/2017	AU2016204281

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Issued	Inner lens optics for Omnidirectional lamp	PRI-PRIORITY APPLICATION	13/566623	8/3/2012	3/31/2015	US8992052
CN	Filed	Inner lens optics for Omnidirectional lamp	DIV-DIVISIONAL FILING	201611095526.8	12/2/2016		
EP	Filed	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	PCT-PATENT COOPERATION TREATY	13742302.6	2/3/2015		
CN	Issued	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	PCT-PATENT COOPERATION TREATY	201380041269.8	2/3/2015	7/28/2017	CN104755988
MX	Issued	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	PCT-PATENT COOPERATION TREATY	MX/A/2015/001515	1/30/2015	5/5/2016	MX338948
BR	Filed	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	PCT-PATENT COOPERATION TREATY	112015001967-6	1/28/2015		
KR	Filed	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	PCT-PATENT COOPERATION TREATY	1020157005463	3/2/2015		
AU	Issued	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	PCT-PATENT COOPERATION TREATY	2013296992	1/30/2015	6/22/2017	AU2013296992
CA	Filed	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	PCT-PATENT COOPERATION TREATY	2879388	1/15/2015		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Issued	Light Emitting Diode Lamp	PDS-PRIORITY DESIGN APPLICATION	29/418358	4/16/2012	10/15/2013	USD691745
US	Issued	OPTICAL SYSTEM FOR A DIRECTIONAL LAMP	PRI-PRIORITY APPLICATION	13/802987	3/14/2013	11/17/2015	US9188312
MX	Filed	Optical system for BR LED replacement lamps	PCT-PATENT COOPERATION TREATY	MX/A/2015/012160	9/10/2015		
EP	Filed	Optical system for BR LED replacement lamps	PCT-PATENT COOPERATION TREATY	14711037.3	9/7/2015		
CN	Filed	Optical system for BR LED replacement lamps	PCT-PATENT COOPERATION TREATY	201480027463.5	11/13/2015		
JP	Filed	Optical system for BR LED replacement lamps	PCT-PATENT COOPERATION TREATY	2016-500327	9/10/2015		
KR	Filed	Optical system for BR LED replacement lamps	PCT-PATENT COOPERATION TREATY	1020157028302	10/8/2015		
CA	Filed	Optical system for BR LED replacement lamps	PCT-PATENT COOPERATION TREATY	2905246	9/10/2015		
US	Issued	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	PRI-PRIORITY APPLICATION	13/706511	12/6/2012	9/19/2017	US9767522
TW	Issued	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	ORD-UTILITY PATENT FILING	102143590	11/28/2013	11/21/2017	TWI606414
CA	Filed	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	PCT-PATENT COOPERATION TREATY	2896452	6/25/2015		
CN	Filed	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	PCT-PATENT COOPERATION TREATY	201380072423.8	8/6/2015		
EP	Filed	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	PCT-PATENT COOPERATION TREATY	13795118.2	6/18/2015		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
KR	Filed	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	PCT-PATENT COOPERATION TREATY	10-2015-7017930	7/3/2015		
US	Filed	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	CON-CONTINUATION	15/685427	8/24/2017		
US	Issued	LED LAMP	DES-DESIGN	29/420071	5/4/2012	1/22/2013	USD674927
EP	Filed	LAMP WITH HEAT SINK AND ACTIVE COOLING DEVICE	PCT-PATENT COOPERATION TREATY	13724956.1	11/7/2014		
CN	Filed	LAMP WITH HEAT SINK AND ACTIVE COOLING DEVICE	PCT-PATENT COOPERATION TREATY	201380023503.4	11/4/2014		
US	Filed	LAMP WITH HEAT SINK AND ACTIVE COOLING DEVICE	CON-CONTINUATION	15/809655	11/10/2017		
US	Issued	OPTICS SYSTEM FOR SOLID STATE LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	14/398887	11/4/2014	12/12/2017	US9841175
CN	Issued	OPTICS SYSTEM FOR SOLID STATE LIGHTING APPARATUS	PUM-PCT UTILITY MODEL	201390000447.8	11/4/2014	9/23/2015	CN201390000447.8
US	Issued	LAMP WITH LIGHT EMITTING ELEMENTS SURROUNDING ACTIVE COOLING DEVICE	ORD-UTILITY PATENT FILING	13/665959	11/1/2012	11/22/2016	US9500355
US	Issued	ACTIVE COOLING DEVICE	PRI-PRIORITY APPLICATION	13/710782	12/11/2012	3/7/2017	US9587820
US	Issued	High Output Three-way lamp with consumer programable output levels	PRI-PRIORITY APPLICATION	14/013157	8/29/2013	9/1/2015	US9125271
TW	Filed	HOW THREE-WAY LAMP WITH PROGRAMMABLE OUTPUT LEVELS	ORD-UTILITY PATENT FILING	103128643	8/20/2014		
CA	Filed	THREE-WAY LAMP WITH PROGRAMMABLE OUTPUT LEVELS	PCT-PATENT COOPERATION TREATY	2922489	2/18/2016		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CN	Filed	A lighting device a lighting assembly and a regulating element	PRI-PRIORITY APPLICATION	201310666489.1	12/10/2013		
TW	Filed	A lighting device a lighting assembly and a regulating element	ORD-UTILITY PATENT FILING	103140869	11/25/2014		
JP	Issued	LED LAMP WITH ND-GLASS BULB	PCT-PATENT COOPERATION TREATY	2015-538048	4/15/2015	11/24/2017	JP6247694
MX	Issued	LED LAMP WITH ND-GLASS BULB	PCT-PATENT COOPERATION TREATY	MX/A/2015/004952	4/17/2015	7/20/2017	MX349277
US	Issued	LED LAMP WITH ND-GLASS BULB	ORD-UTILITY PATENT FILING	14/056328	10/17/2013	4/4/2017	US9612002
CA	Filed	LED LAMP WITH ND-GLASS BULB	PCT-PATENT COOPERATION TREATY	2888268	4/16/2015		
CN	Filed	LED LAMP WITH ND-GLASS BULB	PCT-PATENT COOPERATION TREATY	201380066484.3	6/18/2015		
EP	Filed	LED LAMP WITH ND-GLASS BULB	PCT-PATENT COOPERATION TREATY	13785746.2	4/24/2015		
US	Issued	LED LAMP	PDS-PRIORITY DESIGN APPLICATION	29/450990	3/27/2013	12/17/2013	USD695927
MX	Issued	LED LAMP	DES-DESIGN	MX/f/2013/002869	9/20/2013	7/21/2015	MX44596
US	Issued	LED LAMP WITH AN ELEVATED LIGHT UNIT	PDS-PRIORITY DESIGN APPLICATION	29/448755	3/13/2013	6/23/2015	USD732709
EM	Issued	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	DES-DESIGN	2308536	9/13/2013	9/13/2013	EM002308536-0001
CN	Issued	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	DES-DESIGN	201330441103.8	9/13/2013	11/12/2014	CN201330441103.8

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CA	Issued	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	DES-DESIGN	152860	9/12/2013	10/24/2014	CA152860
MX	Issued	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	DES-DESIGN	MX/f/2013/002814	9/13/2013	2/6/2015	MX43404
US	Issued	DIRECTIONAL LAMP WITH ADJUSTABLE BEAM SPREAD	PRI-PRIORITY APPLICATION	13/906387	5/31/2013	4/5/2016	US9303846B2
TW	Filed	DIRECTIONAL LAMP WITH ADJUSTABLE BEAM SPREAD	ORD-UTILITY PATENT FILING	103117510	5/19/2014		
US	Issued	UNITARY HEAT SINK FOR SOLID STATE LAMP	PRI-PRIORITY APPLICATION	14/574414	12/18/2014	5/30/2017	US9664343
US	Issued	LED LAMP WITH STIPPLED LENS	PDS-PRIORITY DESIGN APPLICATION	29/468115	9/26/2013	6/23/2015	USD732710
EM	Issued	LED LAMP WITH STIPPLED LENS	DES-DESIGN	2427054	3/18/2014	3/18/2014	EM002427054
SG	Issued	LED LAMP WITH STIPPLED LENS	DES-DESIGN	D2014/343/E	3/20/2014	5/2/2014	SGD2014/343/E
CL	Issued	LED LAMP WITH STIPPLED LENS	DES-DESIGN	1189-2014	5/7/2014	8/4/2016	CL8.125
BO	Issued	LED LAMP WITH STIPPLED LENS	DES-DESIGN	SP-109-2014	3/26/2014	10/31/2016	BO6590-B
PE	Issued	LED LAMP WITH STIPPLED LENS	DES-DESIGN	417.2014	3/26/2014	3/22/2016	PE4480
TR	Issued	LED LAMP WITH STIPPLED LENS	DES-DESIGN	2014/02278	3/24/2014	6/1/2014	TR2014 02278
US	Issued	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	PRI-PRIORITY APPLICATION	14/068414	10/31/2013	11/29/2016	US9506624B2

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CA	Filed	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	PCT-PATENT COOPERATION TREATY	2928432	4/21/2016		
MX	Filed	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	PCT-PATENT COOPERATION TREATY	MX/A/2016/005675	4/29/2016		
EP	Filed	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	PCT-PATENT COOPERATION TREATY	14802240.3	4/27/2016		
CN	Filed	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	PCT-PATENT COOPERATION TREATY	201480059977.9	4/29/2016		
BR	Filed	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	PCT-PATENT COOPERATION TREATY	112016008265-6	4/14/2016		
US	Issued	LED DIRECTIONAL LAMP WITH LENS	PDS-PRIORITY DESIGN APPLICATION	29/506035	10/13/2014	8/15/2017	USD794837
EM	Issued	LED DIRECTIONAL LAMP WITH LENS	DES-DESIGN	2690537	4/28/2015	4/28/2015	EM002690537
BR	Issued	LED DIRECTIONAL LAMP WITH LENS	DES-DESIGN	302015002002-4	4/13/2015	8/1/2017	BR302015002002
MX	Issued	LED DIRECTIONAL LAMP WITH LENS	DES-DESIGN	MX/F/2015/001238	4/13/2015	2/3/2017	MX48952
CA	Issued	LED DIRECTIONAL LAMP WITH LENS	DES-DESIGN	161897	4/13/2015	1/7/2016	CA161897
CA	Issued	Smooth Par Lamp Par38/30/20	DDV-DESIGN DIVISIONAL	165183	11/5/2015	1/7/2016	CA165183
BR	Issued	Smooth Par Lamp Par38/30/20	DDV-DESIGN DIVISIONAL	322016005759-4	12/12/2016	11/7/2017	BR322016005759-4
MX	Filed	Smooth Par Lamp Par38/30/20	DDV-DESIGN DIVISIONAL	MX/F/2017/000350	2/2/2017		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
MX	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	MX/A/2016/003053	3/8/2016		
CA	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	2923187	3/3/2016		
US	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	14/917870	3/9/2016		
TW	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	ORD-UTILITY PATENT FILING	103131905	9/16/2014		
EP	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	14842487.2	3/3/2016		
JP	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	2016-540937	3/3/2016		
CN	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	201480061293.2	5/9/2016		
KR	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	1020167008964	4/5/2016		
AU	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	2014315049	3/9/2016		
BR	Filed	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	PCT-PATENT COOPERATION TREATY	112016005086-0	3/8/2016		
US	Filed	STRUCTURES SUBJECTED TO THERMAL ENERGY AND THERMAL MANAGEMENT METHODS THEREFOR	PRI-PRIORITY APPLICATION	14/567270	12/11/2014		
US	Issued	LAMP WITH LED CHIPS COOLED BY A PHASE TRANSFORMATION LOOP	PRI-PRIORITY APPLICATION	14/583039	12/24/2014	7/26/2016	US9401468B2
CN	Filed	LAMP WITH LED CHIPS COOLED BY A PHASE TRANSFORMATION LOOP	ORD-UTILITY PATENT FILING	201510982991.2	12/24/2015		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Filed	LED LAMP WITH COATED SUBSTRATE	PRI-PRIORITY APPLICATION	15/486415	4/13/2017		
WO	Filed	A19 Lamp Design Using Light Emitting Diodes	ORD-UTILITY PATENT FILING	PCT/US2018/27200	4/12/2018		
US	Issued	LIGHT BULB	PDS-PRIORITY DESIGN APPLICATION	29/486580	3/31/2014	6/23/2015	USD732717
US	Filed	Continuation or CIP for A lamp TIR inner reflector	CIP-CONTINUATION IN PART	14536957	11/10/2014		
CN	Filed	REFLECTOR AND LAMP COMPRISED THEREOF	ORD-UTILITY PATENT FILING	201511035930.1	11/10/2015		
CN	Filed	LED LAMP	PRI-PRIORITY APPLICATION	201410654638.7	11/17/2014		
AU	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	2014408631	3/27/2017		
MY	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	2017701023	3/24/2017		
IN	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	201747013831	4/19/2017		
US	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	15/515755	3/30/2017		
TW	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	ORD-UTILITY PATENT FILING	104133077	10/7/2015		
EP	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	14903619.6	4/4/2017		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CN	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	201480082766.7	4/10/2017		
JP	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	2017-518287	4/5/2017		
KR	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	1020177012079	5/2/2017		
CA	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	2963171	3/30/2017		
MX	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	MX/A/2017/004648	4/7/2017		
BR	Filed	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	112017006964-4	4/5/2017		
CN	Filed	LIGHTING APPARATUS	PRI-PRIORITY APPLICATION	201410736040.2	12/4/2014		
TW	Filed	LIGHTING APPARATUS	ORD-UTILITY PATENT FILING	104140827	12/4/2015		
US	Filed	LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	15/529849	5/25/2017		
CA	Filed	LIGHTING APPARATUS	PCT-PATENT COOPERATION TREATY	2968975	5/25/2017		
US	Issued	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	PRI-PRIORITY APPLICATION	14/886781	10/19/2015	5/15/2018	US9970629
AU	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	2016244183	10/11/2016		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
MY	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	PI 2016703520	9/26/2016		
IN	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	201644035129	10/14/2016		
TW	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	105132230	10/5/2016		
EP	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	16194150.5	10/17/2016		
CN	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	201610909566.5	10/19/2016		
JP	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	2016-200502	10/12/2016		
KR	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	1020160133496	10/14/2016		
CA	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	2944470	10/6/2016		
MX	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	MX/A/2016/013679	10/18/2016		
BR	Filed	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	ORD-UTILITY PATENT FILING	102016024252-5	10/18/2016		
US	Issued	LIGHTING SYSTEM WITH ACTIVELY CONTROLLABLE OPTICS AND METHOD	ORD-UTILITY PATENT FILING	14/850596	9/10/2015	12/12/2017	US9841167
US	Issued	WIRELESS BEHAVIORAL FEEDBACK FOR ACTIVE LIGHTING CONTROL	PRI-PRIORITY APPLICATION	14/948912	11/23/2015	5/2/2017	US9642218
WO	Filed	WIRELESS BEHAVIORAL FEEDBACK FOR ACTIVE LIGHTING CONTROL	ORD-UTILITY PATENT FILING	PCT/US2016/061016	11/9/2016		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
TW	Filed	WIRELESS BEHAVIORAL FEEDBACK FOR ACTIVE LIGHTING CONTROL	ORD-UTILITY PATENT FILING	105136487	11/9/2016		
US	Issued	LAMP BASE HAVING INTEGRAL SEMICONDUCTOR TRANSIENT PROTECTION DEVICE	PRI-PRIORITY APPLICATION	14/572224	12/16/2014	10/4/2016	US9462656B2
US	Filed	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	ORD-UTILITY PATENT FILING	14/876366	10/6/2015		
TW	Filed	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	ORD-UTILITY PATENT FILING	104133048	10/7/2015		
JP	Filed	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	PCT-PATENT COOPERATION TREATY	2017-516838	3/28/2017		
KR	Filed	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	PCT-PATENT COOPERATION TREATY	1020177012241	5/4/2017		
CN	Filed	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	PCT-PATENT COOPERATION TREATY	201580054742.5	4/7/2017		
MY	Filed	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	PCT-PATENT COOPERATION TREATY	2017700676	2/27/2017		
VN	Filed	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	PCT-PATENT COOPERATION TREATY	1201701007	3/21/2017		
US	Issued	WARM DIMMING FOR AN LED LIGHT SOURCE	PRI-PRIORITY APPLICATION	14/809892	7/27/2015	5/30/2017	US9668307
CA	Filed	WARM DIMMING FOR AN LED LIGHT SOURCE	PCT-PATENT COOPERATION TREATY	2992994	1/18/2018		
WO	Filed	LED LAMP WITH INTERNAL MIRROR	ORD-UTILITY PATENT FILING	PCT/US2016/022367	3/14/2016		
CA	Filed	LED LAMP WITH INTERNAL MIRROR	PCT-PATENT COOPERATION TREATY	2978463	8/31/2017		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CN	Filed	LED LAMP WITH INTERNAL MIRROR	PCT-PATENT COOPERATION TREATY	201680015297.6	9/12/2017		
US	Filed	LED LAMP WITH ENCAPSULATED DRIVER AND SAFETY CIRCUIT	PCT-PATENT COOPERATION TREATY	15/549539	8/8/2017		
US	Filed	LED LAMP WITH INTERNAL MIRROR	PCT-PATENT COOPERATION TREATY	15/557655	9/12/2017		
CA	Filed	LED LAMP WITH INTERNAL MIRROR	PCT-PATENT COOPERATION TREATY	2979409	9/11/2017		
CN	Filed	LED LAMP WITH INTERNAL MIRROR	PCT-PATENT COOPERATION TREATY	201680027451.1	11/10/2017		
US	Issued	Design patent for light stick, design 1#	PDS-PRIORITY DESIGN APPLICATION	29/507347	10/27/2014	10/20/2015	USD741519
CO	Issued	LIGHT STICK LAMP	DES-DESIGN	15095060	4/27/2015	12/3/2015	CO8863
CL	Issued	LIGHT STICK LAMP	DES-DESIGN	1019-2015	4/22/2015	4/26/2017	CL8.599
PE	Issued	LIGHT STICK LAMP	DES-DESIGN	548.15	4/23/2015	12/31/2015	PE4423
VE	Filed	LIGHT STICK LAMP	DES-DESIGN	15-388	4/27/2015		
CA	Issued	LIGHT STICK LAMP	DES-DESIGN	162007	4/21/2015	11/19/2015	CA162007
KR	Issued	LIGHT STICK LAMP	DES-DESIGN	30-2015-0019635	4/17/2015	11/14/2016	KR30-0881911-0000
EM	Issued	LIGHT STICK LAMP	DES-DESIGN	2688358	4/24/2015	4/24/2015	EM002688358

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CN	Issued	LIGHT STICK LAMP	DES-DESIGN	201530116199.X	4/27/2015	11/18/2015	CN201530116199.X
JP	Issued	LIGHT STICK LAMP	DES-DESIGN	2015-008829	4/20/2015	4/28/2016	JP1551048
MX	Issued	LIGHT STICK LAMP	DES-DESIGN	MX/F/2015/001369	4/24/2015	7/6/2016	MX47331
AR	Issued	LIGHT STICK LAMP	DES-DESIGN	88355	4/23/2015	4/23/2015	AR88355
US	Issued	Design patent application, light stick, design 3#	PDS-PRIORITY DESIGN APPLICATION	29/513041	12/24/2014	5/17/2016	USD756544S1
CO	Issued	LED LIGHT STICK LAMP	DES-DESIGN	15145.198	6/24/2015	1/6/2016	CO8886
DO	Issued	LED LIGHT STICK LAMP	DES-DESIGN	D2015-0152	6/16/2015	10/30/2015	DOD2015-0152
MX	Issued	LED LIGHT STICK LAMP	DES-DESIGN	MX/F/2015/001966	6/23/2015	1/17/2017	MX48789
PE	Issued	LED LIGHT STICK LAMP	DES-DESIGN	1182.15	6/23/2015	12/18/2015	PE1182.15
AR	Issued	LED LIGHT STICK LAMP	DES-DESIGN	88621	6/17/2015	6/17/2015	AR88621
CL	Issued	LED LIGHT STICK LAMP	DES-DESIGN	2015-01830	6/24/2015	9/5/2017	CL8.645
CN	Issued	LED LIGHT STICK LAMP	DES-DESIGN	201530210994.5	6/24/2015	2/3/2016	CN303580651
WO	Filed	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	PRI-PRIORITY APPLICATION	PCT/CN2016/076459	3/16/2016		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
TW	Filed	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	ORD-UTILITY PATENT FILING	106107252	3/6/2017		
US	Issued	HEATSINK WITH INTEGRATED ELECTRICAL AND BASE CONTACTS	PRI-PRIORITY APPLICATION	14/850010	9/10/2015	5/15/2018	US9970646
CN	Filed	HEATSINK WITH INTEGRATED ELECTRICAL AND BASE CONTACTS	ORD-UTILITY PATENT FILING	201610812024.6	9/9/2016		
US	Filed	COLOR-SHIFTED LAMPS USING NEODYMIUM-FLUORINE CONTAINING COATING	CIP-CONTINUATION IN PART	14/931476	11/3/2015		
WO	Filed	COLOR-SHIFTED LAMPS USING NEODYMIUM-FLUORINE CONTAINING COATING	ORD-UTILITY PATENT FILING	PCT/US16/59974	11/2/2016		
US	Issued	LED Retrofit Lamp - design patent	PDS-PRIORITY DESIGN APPLICATION	29/510861	12/3/2014	2/23/2016	USD750284S1
US	Issued	LED LAMP	PDS-PRIORITY DESIGN APPLICATION	29/510862	12/3/2014	2/23/2016	USD750285S1
CN	Issued	Extended facet feature on lens surface to mimic the reflector appearance for LED directional lamps. (file as DESIGN patent)	PDS-PRIORITY DESIGN APPLICATION	201530460092.7	11/17/2015	9/7/2016	CN201530460092.7
US	Issued	LED LAMP	DES-DESIGN	29/564547	5/13/2016	7/4/2017	USD791369
EM	Issued	LED LAMP	DES-DESIGN	3126796	5/13/2016	5/13/2016	EM0031267960001
CN	Issued	LED LAMP	PDS-PRIORITY DESIGN APPLICATION	201530460093.1	11/17/2015	8/24/2016	CN201530460093.1
US	Issued	LED LAMP	DES-DESIGN	29/564569	5/13/2016	7/4/2017	USD791370

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
EM	Issued	LED LAMP	DES-DESIGN	3126457	5/13/2016	5/13/2016	EM0031264570001
US	Issued	BATTERY BACK UP LAMP USING AC WIRING ACTIVATION	PRI-PRIORITY APPLICATION	14/938930	11/12/2015	11/28/2017	US9832827
TW	Filed	BATTERY BACK UP LAMP USING AC WIRING ACTIVATION	ORD-UTILITY PATENT FILING	105135107	10/28/2016		
WO	Filed	BATTERY BACK UP LAMP USING AC WIRING ACTIVATION	ORD-UTILITY PATENT FILING	PCT/US2016/055868	10/7/2016		
CN	Filed	LED dimmer, LED apparatus and LED system	PRI-PRIORITY APPLICATION	201510392344.6	7/6/2015		
US	Issued	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	PDS-PRIORITY DESIGN APPLICATION	29/547642	12/6/2015	5/2/2017	USD785821
CN	Issued	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	DES-DESIGN	201630224764.9	6/6/2016	6/20/2017	CN304185627
JP	Issued	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	DES-DESIGN	2016-011260	5/27/2016	4/28/2017	JP1577376
KR	Issued	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	DES-DESIGN	3020160024398	5/23/2016	11/6/2017	KR3009306910001
BR	Filed	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	DES-DESIGN	302016002233-0	5/30/2016		
MX	Issued	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	DES-DESIGN	MX/F/2016/001745	6/3/2016	11/1/2017	MX51236
EM	Issued	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	DES-DESIGN	3143593	5/20/2016	5/20/2016	EM003143593
CN	Issued	LED LAMP	PDS-PRIORITY DESIGN APPLICATION	201530318687.9	8/24/2015	5/4/2016	CNCN201530318687.9

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Issued	LED LAMP	DES-DESIGN	29/555687	2/24/2016	8/15/2017	USD794839
US	Filed	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	CIP-CONTINUATION IN PART	14/966329	12/11/2015		
WO	Filed	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	ORD-UTILITY PATENT FILING	PCT/US2016/065149	12/6/2016		
TW	Filed	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	ORD-UTILITY PATENT FILING	105140480	12/7/2016		
CN	Filed	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	PRI-PRIORITY APPLICATION	201511015919.9	12/29/2015		
WO	Filed	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	ORD-UTILITY PATENT FILING	PCT/US2016/069236	12/29/2016		
TW	Filed	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR	ORD-UTILITY PATENT FILING	105143390	12/27/2016		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
		THICKNESS OF COMPOSITE MATERIAL					
CN	Issued	LAMP	PDS-PRIORITY DESIGN APPLICATION	201630206723.7	5/27/2016	3/8/2017	CNCN201630206723.7
MX	Issued	LAMP	DES-DESIGN	MX/F/2016/003443	11/7/2016	11/16/2017	MX51383
CL	Filed	LAMP	DES-DESIGN	2554-2016	10/6/2016		
TH	Filed	LAMP	DES-DESIGN	1602004298	11/8/2016		
KR	Issued	LAMP	DES-DESIGN	30-2016-0049167	10/13/2016	9/13/2017	KR30-0923676-0000
JP	Issued	LAMP	DES-DESIGN	2016-021772	10/6/2016	6/16/2017	JP1581002
EM	Issued	LAMP	DES-DESIGN	003404391-0001	10/4/2016	10/4/2016	EM003404391-0001
US	Issued	LAMP	DES-DESIGN	29/584591	11/16/2016	1/23/2018	USD808547
CA	Issued	LAMP	DES-DESIGN	170765	10/4/2016	7/12/2017	CA170765
TW	Issued	LAMP	DES-DESIGN	105306826	11/14/2016	11/1/2017	TWD186469
MY	Issued	LAMP	DES-DESIGN	16-00994-0101	10/4/2016	1/19/2018	MY16-00994-0101
AU	Issued	LAMP	DES-DESIGN	201615617	10/4/2016	1/9/2017	AU201615617

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
PH	Unfiled	LAMP	DES-DESIGN				
BR	Issued	LAMP	DES-DESIGN	302016004733-2	10/14/2016	9/12/2017	BR302016004733-2
AR	Filed	LAMP	DES-DESIGN	90850	10/14/2016		
US	Issued	BOTTOM PORTION OF LAMP	PDS-PRIORITY DESIGN APPLICATION	29/566268	5/27/2016	7/11/2017	USD791984
EM	Issued	LAMP	DES-DESIGN	3456680	11/10/2016	11/10/2016	EM003456680-0001
CN	Filed	LAMP AND LIGHTING FIXTURE COMPRISING THE LAMP	PRI-PRIORITY APPLICATION	201611225008.3	12/27/2016		
CA	Filed	LAMP AND LIGHTING FIXTURE COMPRISING THE LAMP	ORD-UTILITY PATENT FILING	2990134	12/27/2017		
US	Filed	LAMP AND LIGHTING FIXTURE COMPRISING THE LAMP	ORD-UTILITY PATENT FILING	15/854894	12/27/2017		
CN	Filed	LED LAMP AND ASSEMBLING METHOD THEREOF	PRI-PRIORITY APPLICATION	201710036140.8	1/17/2017		
US	Filed	LED LAMP AND ASSEMBLING METHOD THEREOF	ORD-UTILITY PATENT FILING	15/865643	1/9/2018		
CA	Filed	LED LAMP AND ASSEMBLING METHOD THEREOF	ORD-UTILITY PATENT FILING	2990790	1/4/2018		
WO	Filed	LED BULB WITH GLASS ENVELOPE	PRI-PRIORITY APPLICATION	PCT/CN2016/105677	11/14/2016		
CN	Filed	LED LAMP	PRI-PRIORITY APPLICATION	201710447399.1	6/14/2017		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
US	Filed	LED BATTERY BACKUP LAMP	PRO-PROVISIONAL	62/511433	5/26/2017		
CN	Filed	LAMP	PRI-PRIORITY APPLICATION	201711190699.2	11/24/2017		
US	Filed	LED FILAMENT LAMPS WITH WHITE FILAMENT APPEARANCE	PRO-PROVISIONAL	62/578200	10/27/2017		
US	Filed	LED FILAMENT LAMPS WITH WHITE FILAMENT APPEARANCE	ORD-UTILITY PATENT FILING	15/922021	3/15/2018		
WO	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING SILICATE, NITRIDE, AND PFS PHOSPHORS	ORD-UTILITY PATENT FILING	PCT/US2015/025128	4/9/2015		WO
TW	Issued	Light Emitting Diode Component	ORD-UTILITY PATENT FILING	94113337	4/26/2005	2/11/2015	TWI473291
CN	Filed	LIGHT EMITTING DIODE COMPONENT	PCT-PATENT COOPERATION TREATY	200580020335.9	4/25/2005		
CN	Filed	LIGHT EMITTING DIODE COMPONENT	DIV-DIVISIONAL FILING	201310632677.2	4/25/2005		
EP	Filed	LIGHT EMITTING DIODE COMPONENT	PCT-PATENT COOPERATION TREATY	5740241.4	11/10/2006		
US	Issued	LIGHT EMITTING DIODE COMPONENT	CON-CONTINUATION	12/884612	9/17/2010	1/29/2013	US8362695
KR	Issued	LIGHT EMITTING DIODE COMPONENT	ORD-UTILITY PATENT FILING	2006-7024601	4/25/2005	6/25/2012	KR1161461
US	Issued	LIGHT EMITTING DIODE COMPONENT	CON-CONTINUATION	12/884717	9/17/2010	5/7/2013	US8436380
US	Filed	Light Emitting Diode Component	CON-CONTINUATION	13/886878	5/3/2013		
US	Filed	LIGHT EMITTING DIODE COMPONENT	CON-CONTINUATION	14/062169	10/24/2013		
JP	Issued	Light Emitting Diode Component	PCT-PATENT COOPERATION TREATY	2007-510852	4/25/2005	3/20/2014	JP5503844

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
TW	Issued	Light Emitting Diode Component	ORD-UTILITY PATENT FILING	94113337	4/26/2005	2/11/2015	TWI473291
CN	Filed	LIGHT EMITTING DIODE COMPONENT	PCT-PATENT COOPERATION TREATY	200580020335.9	4/25/2005		
CN	Filed	LIGHT EMITTING DIODE COMPONENT	DIV-DIVISIONAL FILING	201310632677.2	4/25/2005		
EP	Filed	LIGHT EMITTING DIODE COMPONENT	PCT-PATENT COOPERATION TREATY	5740241.4	11/10/2006		
US	Issued	LIGHT EMITTING DIODE COMPONENT	CON-CONTINUATION	12/884612	9/17/2010	1/29/2013	US8362695
KR	Issued	LIGHT EMITTING DIODE COMPONENT	ORD-UTILITY PATENT FILING	2006-7024601	4/25/2005	6/25/2012	KR1161461
US	Issued	LIGHT EMITTING DIODE COMPONENT	CON-CONTINUATION	12/884717	9/17/2010	5/7/2013	US8436380
US	Filed	Light Emitting Diode Component	CON-CONTINUATION	13/886878	5/3/2013		
US	Filed	LIGHT EMITTING DIODE COMPONENT	CON-CONTINUATION	14/062169	10/24/2013		
JP	Issued	Light Emitting Diode Component	PCT-PATENT COOPERATION TREATY	2007-510852	4/25/2005	3/20/2014	JP5503844
CN	Application	LED LAMP	Non Provisional	201810189396.7	2018-03-05		
CN	Application	LED LAMP	Non Provisional	201810200947.5	2018-03-12		
CN	Application	DRIVER FOR LED AND LED SYSTEM	Non Provisional	201810300160.6	2018-04-04		
CN	Application	PRESENCE SENSING METHOD, PRESENCE SENSING DEVICE AND LIGHT SYSTEM	Non Provisional	201810660549.1	2018-06-25		
CN	Application	END CAP ACCEMBLY, LAMP USING THE END CAP AND ACCEMBLING METHOD OF THE LAMP	Non Provisional	201810933465.0	2018-08-16		
US	Application	LED FILAMENT WITH COLORED OFF STATE MASKING	provisional	62/765060	2018-08-16		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
	Awaiting Evaluation	Self-adaptive UV Disinfection Light Fixture	unfiled invention disclosure				
	To Be Filed	A PWM dimming circuit with low stand-by power for LED device	unfiled invention disclosure				
US	Issued	WHITE LEDs WITH TUNABLE CRI	PRI-PRIORITY APPLICATION	10/909564	8/2/2004	8/3/2010	US7768189
MY	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	PI 2017700550	2/17/2017		
IN	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	201747011928	4/3/2017		
TH	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	1701001199	3/8/2017		
PH	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	1-2017-500305	2/20/2017		
US	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	CON-CONTINUATION	15/509554	3/8/2017		
EP	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	15706560.8	3/1/2017		
CN	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG,	PCT-PATENT COOPERATION TREATY	201580060838.2	5/9/2017		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
		NITRIDE, AND PFS PHOSPHORS					
JP	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	2017-512013	3/1/2017		
KR	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	10-2017-7009138	4/4/2017		
CA	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	2959989	3/2/2017		
MX	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	MX/A/2017/003055	3/8/2017		
BR	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	112017004395-5	3/6/2017		
AU	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	2015315832	2/24/2017		
KR	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	1020177009584	4/7/2017		
MY	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	PI 2017700351	1/31/2017		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
MX	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	MX/A/2017/003056	3/8/2017		
PH	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	1-2017-500431	3/8/2017		
TH	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	1701001253	3/9/2017		
US	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	CON-CONTINUATION	15/454831	3/9/2017		
TW	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	ORD-UTILITY PATENT FILING	105101403	1/18/2016		
AU	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	2015315833	2/21/2017		
BR	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	112017003420-4	2/21/2017		
CA	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	2959131	2/23/2017		
CN	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG,	PCT-PATENT COOPERATION TREATY	201580048476.5	3/9/2017		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
		NITRIDE, AND PFS PHOSPHORS					
EP	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	15703175.8	3/1/2017		
IN	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	201747011927	4/3/2017		
JP	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	2017-510659	2/22/2017		
BR	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	112017022622-7	10/20/2017		
AU	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	2016251580	10/20/2017		
MY	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	PI2017703601	9/26/2017		
IN	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	201747040195	11/10/2017		
EP	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	16723849.2	10/11/2017		
US	Issued	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	ORD-UTILITY PATENT FILING	14/757957	12/24/2015	5/15/2018	US9974138
TW	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	ORD-UTILITY PATENT FILING	105112496	4/21/2016		

CO	Case Status	Title	Filing Description	Application Number	Application Date	Patent Date	Patent Number
CN	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	201680023187.4	10/20/2017		
JP	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	2017-552122	10/4/2017		
KR	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	1020177032638	11/10/2017		
CA	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	2983422	10/19/2017		
MX	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	MX/A/2017/013515	10/20/2017		

Patent Reference	Patent Application Title	Status	Country	Patent-Design Type	Application Number	Filed Date	Patent No.	Grant Date
126013-CN-2	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	Granted	China	Non Provisional	02809084.5	2002-03-29	02809084.5	2007-04-25
126013-DE-4	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	Granted	Germany (Federal Republic of)	Non Provisional	02721632.4	2002-03-29	60220653.7	2007-06-13
126013-GB-5	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	Granted	United Kingdom	Non Provisional	02721632.4	2002-03-29	1374319	2007-06-13
126013-US-1	HEAT DISSIPATION SYSTEM FOR HIGH POWER LED LIGHTING SYSTEM	Granted	United States of America	Non Provisional	09/681400	2001-03-29	6481874	2002-11-19
126018-US-1	NIGHT LIGHT FOR PLUMBING FIXTURES	Granted	United States of America	Non Provisional	10/064772	2002-08-15	6805458	2004-10-19
126020-CN-2	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	China	Non Provisional	02812366.2	2002-05-24	02812366.2	2009-08-05
126020-DE-12	LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	Germany (Federal Republic of)	Non Provisional	10171923.5	2002-05-24	2241803	2018-11-07
126020-EP-7	LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	European Patent	Non Provisional	10171923.5	2002-05-24	2241803	2018-11-07
126020-FR-10	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	France	Non Provisional	02739450.0	2002-05-24	1393374	2016-08-24
126020-FR-11	LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	France	Non Provisional	10171923.5	2002-05-24	2241803	2018-11-07
126020-GB-13	LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	United Kingdom	Non Provisional	10171923.5	2002-05-24	2241803	2018-11-07
126020-GB-9	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	United Kingdom	Non Provisional	02739450.0	2002-05-24	1393374	2016-08-24
126020-IT-8	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	Italy	Non Provisional	502016000112354	2002-05-24	1393374	2016-08-24
126020-JP-3	LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	Japan	Non Provisional	2003-500968	2002-05-24	4452495	2010-02-05
126020-US-1	HIGH POWER LED POWER PACK FOR SPOT MODULE ILLUMINATION	Granted	United States of America	Non Provisional	10/063924	2002-05-24	6799864	2004-10-05
126030-US-1	VARIABLE OPTICS SPOT MODULE	Granted	United States of America	Non Provisional	09/682535	2001-09-17	6773139	2004-08-10
126038-DE-4	ZOOMABLE SPOT MODULE	Granted	Germany (Federal Republic of)	Non Provisional	02766298.0	2002-09-17	60217523.2	2007-01-10
126038-GB-5	ZOOMABLE SPOT MODULE	Granted	United Kingdom	Non Provisional	02766298.0	2002-09-17	1427962	2007-01-10
126042-CN-9	LED-BASED MODULAR LAMP	Granted	China	Non Provisional	03823757.1	2003-09-19	03823757.1	2012-11-28
126042-DE-4	LED-BASED MODULAR LAMP	Granted	Germany (Federal Republic of)	Non Provisional	03754619.9	2003-09-09	1547447	2008-07-16
126042-EP-2	LED-BASED MODULAR LAMP	Granted	European Patent	Non Provisional	03754619.9	2003-09-09	1547447	2008-07-16
126042-JP-7	LED-BASED MODULAR LAMP	Granted	Japan	Non Provisional	2004-543297	2003-09-19	4350648	2009-07-31
126042-US-1	LED-BASED MODULAR LAMP	Granted	United States of America	Non Provisional	10/065320	2002-10-03	6787999	2004-09-07

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126053-AU-4	COATED LED WITH IMPROVED EFFICIENCY	Granted	Australia	Non Provisional	2003270052	2003-08-29	2003270052	2009-06-04
126053-BE-7	COATED LED WITH IMPROVED EFFICIENCY	Granted	Belgium	Non Provisional	03751945.1	2003-08-29	1540746	2009-11-11
126053-CN-5	COATED LED WITH IMPROVED EFFICIENCY	Granted	China	Non Provisional	03824703.8	2003-08-29	100468791C	2009-03-11
126053-DE-9	COATED LED WITH IMPROVED EFFICIENCY	Granted	Germany (Federal Republic of)	Non Provisional	03751945.1	2003-08-29	1540746	2009-11-11
126053-EP-16	Phosphor-coated light emitting diode with improved efficiency	Granted	European Patent	Non Provisional	08004649.3	2003-08-29	1930959	2019-05-08
126053-ES-13	COATED LED WITH IMPROVED EFFICIENCY	Granted	Spain	Non Provisional	03751945.1	2003-08-29	1540746	2009-11-11
126053-FR-8	COATED LED WITH IMPROVED EFFICIENCY	Granted	France	Non Provisional	03751945.1	2003-08-29	1540746	2009-11-11
126053-GB-10	COATED LED WITH IMPROVED EFFICIENCY	Granted	United Kingdom	Non Provisional	03751945.1	2003-08-29	1540746	2009-11-11
126053-IT-11	COATED LED WITH IMPROVED EFFICIENCY	Granted	Italy	Non Provisional	502010901806259	2003-08-29	1540746	2009-11-11
126053-JP-15	COATED LED WITH IMPROVED EFFICIENCY	Application	Japan	Non Provisional	2004-532037	2003-08-29		
126053-KR-3	COATED LED WITH IMPROVED EFFICIENCY	Granted	Korea, Republic of (KR)	Non Provisional	2005-7003453	2003-08-29	622209	2006-09-19
126053-NL-12	COATED LED WITH IMPROVED EFFICIENCY	Granted	Netherlands	Non Provisional	03751945.1	2003-08-29	1540746	2009-11-11
126053-US-17	COATED LED WITH IMPROVED EFFICIENCY	Granted	United States of America	Non Provisional	90/011805	2011-07-22	7479662	2013-10-17
126053-US-2	COATED LED WITH IMPROVED EFFICIENCY	Granted	United States of America	Non Provisional	10/525697	2003-08-29	7479662	2009-01-20
133068-CN-10	NA	Granted	China	Non Provisional	200480015658.4	2004-05-05	200480015658.4	2009-08-12
133068-DE-5	METHOD AND APPARATUS FOR LED PANEL LAMP SYSTEMS	Granted	Germany (Federal Republic of)	Non Provisional	04751568.9	2004-05-05	1627179	2008-10-08
133068-NL-7	METHOD AND APPARATUS FOR LED PANEL LAMP SYSTEMS	Granted	Netherlands	Non Provisional	04751568.9	2004-05-05	1627179	2008-10-08
133068-US-2	METHOD AND APPARATUS FOR LED PANEL LAMP SYSTEMS	Granted	United States of America	Non Provisional	10/555913	2004-05-05	7635203	2009-12-22
133814-CN-3	LED-BASED LIGHT BULB	Granted	China	Non Provisional	200480015673.9	2004-05-05	200480015673.9	2010-11-24
133814-CN-7	LED-BASED SPECIALTY LIGHT BULB	Granted	China	Non Provisional	201010226198.7	2004-05-05	201010226198.7	2013-10-30
133814-DE-14	LED-BASED LIGHT BULB	Granted	Germany (Federal Republic of)	Non Provisional	04751681.0	2004-05-05	1627178	2018-11-07
133814-EP-10	LED-BASED LIGHT BULB	Granted	European Patent	Non Provisional	04751681.0	2004-05-05	1627178	2018-11-07
133814-EP-11	LED-BASED LIGHT BULB	Granted	European Patent	Non Provisional	12166294.4	2004-05-05	2484962	2019-07-03
133814-FR-13	LED-BASED LIGHT BULB	Granted	France	Non Provisional	04751681.0	2004-05-05	1627178	2018-11-07
133814-GB-15	LED-BASED LIGHT BULB	Granted	United Kingdom	Non Provisional	04751681.0	2004-05-05	1627178	2018-11-07
133814-JP-12	LED-BASED LIGHT BULB	Granted	Japan	Non Provisional	2011-110613	2004-05-05	5815982	2015-10-02
133814-JP-9	LED-BASED LIGHT BULB	Granted	Japan	Non Provisional	2006-514328	2004-05-05	5566564	2014-06-27
133814-US-2	LED-BASED LIGHT BULB	Published	United States of America	Non Provisional	10/555721	2004-05-05		
133814-US-4	LED-BASED LIGHT BULB	Published	United States of America	Non Provisional	13/424785	2012-03-20		
133814-US-5	LED-BASED LIGHT BULB	Published	United States of America	Non Provisional	13/424805	2012-03-20		
133814-US-6	LED-BASED LIGHT BULB	Granted	United States of America	Non Provisional	13/424835	2012-03-20	9944519	2018-04-17
149581-CN-12	LIGHT EMITTING DIODE COMPONENT	Application	China	Non Provisional	200580020335.9	2005-04-25		
149581-CN-13	LIGHT EMITTING DIODE COMPONENT	Application	China	Non Provisional	201310632677.2	2005-04-25		
149581-DE-16	LIGHT EMITTING DIODE COMPONENT	To Be Filed	Germany (Federal Republic of)	Non Provisional				
149581-EP-14	LIGHT EMITTING DIODE COMPONENT	Granted	European Patent	Non Provisional	05740241.4	2005-04-25	1743358	2019-05-15
149581-GB-18	LIGHT EMITTING DIODE COMPONENT	To Be Filed	United Kingdom	Non Provisional				
149581-JP-9	Light Emitting Diode Component	Granted	Japan	Non Provisional	2007-510852	2005-04-25	5503844	2014-03-20
149581-KR-4	LIGHT EMITTING DIODE COMPONENT	Granted	Korea, Republic of (KR)	Non Provisional	2006-7024601	2005-04-25	1161461	2012-06-25

Patent Reference	Patent Application Title	Status	Country	Patent-Design Type	Application Number	Filed Date	Patent No.	Grant Date
149581-NL-17	LIGHT EMITTING DIODE COMPONENT	To Be Filed	Netherlands	Non Provisional				
149581-TW-10	Light Emitting Diode Component	Granted	Taiwan	Non Provisional	094113337	2005-04-26	I473291	2015-02-11
149581-US-3	LIGHT EMITTING DIODE COMPONENT	Granted	United States of America	Non Provisional	12/884612	2010-09-17	8362695	2013-01-29
149581-US-5	LIGHT EMITTING DIODE COMPONENT	Granted	United States of America	Non Provisional	12/884717	2010-09-17	8436380	2013-05-07
149581-US-6	Light Emitting Diode Component	Allowed	United States of America	Non Provisional	13/886878	2013-05-03		
149581-US-7	LIGHT EMITTING DIODE COMPONENT	Granted	United States of America	Non Provisional	14/062169	2013-10-24	10,340,424	2019-07-02
208435-US-1	PIEZOFAN AND HEAT SINK SYSTEM FOR ENHANCED HEAT TRANSFER	Granted	United States of America	Non Provisional	11/531170	2006-09-12	8322889	2012-12-04
223739-US-2	White LEDs with enhanced color contrast	Granted	United States of America	Non Provisional	14/295486	2014-06-04	9954145	2018-04-24
238658-CN-4	LED LAMP	Granted	China	Non Provisional	201180054064.4	2011-10-07	103180659	2016-08-31
238658-DE-5	LED LAMP	Granted	Germany (Federal Republic of)	Non Provisional	11779260.6	2011-10-07	2638318	2016-06-29
238658-GB-7	LED LAMP	Granted	United Kingdom	Non Provisional	11779260.6	2011-10-07	2638318	2016-06-29
238658-NL-6	LED LAMP	Granted	Netherlands	Non Provisional	11779260.6	2011-10-07	2638318	2016-06-29
238658-US-1	LED LAMP	Published	United States of America	Non Provisional	12/942053	2010-11-09		
240966-BR-7	LED lamp having a spherical diffuser	Application	Brazil	Non Provisional	112012011011-0	2010-10-01		
240966-CN-12	LED lamp having a spherical diffuser	Published	China	Non Provisional	2016109308322	2010-10-01		
240966-CN-3	LED lamp having a spherical diffuser	Application	China	Non Provisional	201080054756.4	2010-10-01		
240966-EP-8	LED lamp having a spherical diffuser	Published	European Patent	Non Provisional	10821324.0	2010-10-01		
240966-KR-13	LIGHT EMITTING DIODE (LED) BASED LAMP	Examination Requested	Korea, Republic of (KR)	Non Provisional	10-2018-7028878	2010-10-01		
240966-KR-9	LED lamp having a spherical diffuser	Published	Korea, Republic of (KR)	Non Provisional	1020127011454	2010-10-01		
240966-US-1	LED LAMP WITH UNIFORM OMNIDIRECTIONAL LIGHT INTENSITY OUTPUT	Granted	United States of America	Non Provisional	12/572339	2009-10-02	9103507	2015-08-11
240966-US-11	LED LAMP WITH UNIFORM OMNIDIRECTIONAL LIGHT INTENSITY OUTPUT	Published	United States of America	Non Provisional	15/158978	2016-05-19		
240966-US-4	LED LAMP WITH UNIFORM OMNIDIRECTIONAL LIGHT INTENSITY OUTPUT	Granted	United States of America	Non Provisional	14/205542	2014-03-12	9618165	2017-04-11
240966-US-5	LED lamp having a spherical diffuser	Granted	United States of America	Non Provisional	14/183013	2014-02-18	9360166B2	2016-06-07
241019-AU-7	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Granted	Australia	Non Provisional	2011205461	2011-01-11	2011205461	2015-10-22
241019-BR-5	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Application	Brazil	Non Provisional	112012017088-0	2011-01-11		
241019-CN-6	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Granted	China	Non Provisional	201180005962.0	2011-01-11	201180005962.0	2015-11-25
241019-EP-4	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Application	European Patent	Non Provisional	11708124.0	2011-01-11		
241019-JP-11	Transparent Heat Fins - Transparent Thermally Conductive Polymer Composites For Light Source Thermal Management	Granted	Japan	Non Provisional	2015-212729	2011-01-11	6193330	2017-09-06

Patent Reference	Patent Application Title	Status	Country	Patent-Design Type	Application Number	Filed Date	Patent No.	Grant Date
241019-JP-8	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Granted	Japan	Non Provisional	2012-548995	2011-01-11	6139134	2017-05-12
241019-KR-13	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Application	Korea, Republic of (KR)	Non Provisional	1020187004495	2011-01-11		
241019-KR-9	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Granted	Korea, Republic of (KR)	Non Provisional	1020127020972	2011-01-11	101847657	2018-04-04
241019-MX-10	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Granted	Mexico	Non Provisional	MX/a/2012/008009	2011-01-11	338717	2016-04-28
241019-MX-12	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT.	Granted	Mexico	Non Provisional	2016001608	2011-01-11	349604	2017-08-04
241019-US-2	TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE THERMAL MANAGEMENT	Granted	United States of America	Non Provisional	12/979611	2010-12-28	8541933	2013-09-24
241200-CN-11	Heatsink design for uniform optical output of a LED lamp with spherical diffuser	Granted	China	Non Provisional	201080054757.9	2010-10-01	201080054757.9	2015-10-07
241200-CN-7	LED LAMP	Granted	China	Design	201030545633.3	2010-10-08	201030545633.3	2011-06-22
241200-EM-3	LED LAMP	Granted	European Union	Design	001764713-0001	2010-10-06	001764713-0001	2010-10-06
241200-EM-4	LED LAMP	Granted	European Union	Design	001764713-0002	2010-10-06	001764713-0002	2010-10-06
241200-EM-5	LED LAMP	Granted	European Union	Design	001764713-0003	2010-10-06	001764713-0003	2010-10-06
241200-EM-6	LED LAMP	Granted	European Union	Design	001764713-0004	2010-10-06	001764713-0004	2010-10-06
241200-EP-18	Heatsink design for uniform optical output of a LED lamp with spherical diffuser	Published	European Patent	Non Provisional	10763295.2	2010-10-01		
241200-JP-14	Light Emitting Diode (LED) Based Light Bulb	Granted	Japan	Design	2010-023996	2010-10-06	1423574	2011-08-19
241200-JP-15	Light Emitting Diode (LED)-Based Light Bulb	Granted	Japan	Design	2010-023995	2010-10-06	1423363	2011-08-19
241200-US-1	LED LAMP	Granted	United States of America	Non Provisional	12/572480	2009-10-02	8593040	2013-11-26
241200-US-12	LED LAMP	Granted	United States of America	Non Provisional	14/062317	2013-10-24	9951938	2018-04-24
241200-US-2	LED LAMP	Granted	United States of America	Design	29/359239	2010-04-07	D658788	2012-05-01
244671-BR-8	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Application	Brazil	Non Provisional	112012025157-0	2011-03-18		
244671-CN-4	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	China	Non Provisional	201180027211.9	2011-03-18	102939501	2016-05-11
244671-DE-12	Opaque High Conduction Light Weight Heat Sinks	Granted	Germany (Federal Republic of)	Non Provisional	11712382.8	2011-03-18	602011034251.7	2017-01-11
244671-JP-15	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	Japan	Non Provisional	2016-177353	2011-03-18	6321101	2018-04-13
244671-JP-9	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	Japan	Non Provisional	2013-502622	2011-03-18	6321101	2018-04-13

Patent Reference	Patent Application Title	Status	Country	Patent-Design Type	Application Number	Filed Date	Patent No.	Grant Date
244671-KR-10	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Published	Korea, Republic of (KR)	Non Provisional	1020127028368	2011-03-18		
244671-MX-6	Lightweight Heat Sinks and LED Lamps Employing Same	Granted	Mexico	Non Provisional	MX/a/2012/011434	2011-03-18	317382	2014-01-22
244671-TW-11	Opaque High Conduction Light Weight Heat Sinks	Granted	Taiwan	Non Provisional	100111435	2011-03-31	I570380	2017-02-11
244671-US-2	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	United States of America	Non Provisional	12/979529	2010-12-28	8668356	2014-03-11
244773-CN-23	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Published	China	Non Provisional	2018102156900	2011-03-18		
244773-KR-24	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Application	Korea, Republic of (KR)	Non Provisional	10-2018-7005011	2018-02-20		
244773-MX-5	Lightweight Heat Sinks and LED Lamps Employing Same	Granted	Mexico	Non Provisional	MX/a/2012/011433	2011-03-18	317299	2014-01-20
244773-US-2	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	United States of America	Non Provisional	12/979476	2010-12-28	10,240,772	2019-03-26
245146-CN-4	LED LAMP	Granted	China	Non Provisional	201080070988.9	2010-12-31	103261777	2016-10-12
245146-DE-9	LED LAMP	Granted	Germany (Federal Republic of)	Non Provisional	10861503.0	2010-12-31	602010038548.5	2016-11-30
245146-KR-7	LED LAMP	Application	Korea, Republic of (KR)	Non Provisional	1020137016970	2010-12-31		
245146-MX-5	LED LAMP	Granted	Mexico	Non Provisional	MX/a/2013/007701	2010-12-31	324190	2014-10-06
245146-NL-10	LED LAMP	Granted	Netherlands	Non Provisional	10861503.0	2010-12-31	2659178	2016-11-30
245146-US-2	LED LAMP	Granted	United States of America	Non Provisional	13/336392	2011-12-23	8480257	2013-07-09
245224-BR-7	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	Application	Brazil	Non Provisional	112013007741-7	2011-03-18		
245224-CN-4	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	Granted	China	Non Provisional	201180057758.3	2011-03-18	103238027	2017-03-29
245224-DE-13	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	Germany (Federal Republic of)	Non Provisional	11713109.4	2011-03-18	602011025903.2	2016-04-27
245224-ID-8	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	Granted	Indonesia	Non Provisional	W00201301695	2011-03-18	IDP000053510	2018-09-19
245224-JP-9	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	Granted	Japan	Non Provisional	2013-531566	2011-03-18	5815716	2015-10-02
245224-KR-10	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	Granted	Korea, Republic of (KR)	Non Provisional	1020137009765	2011-03-18	10-1809185	2017-12-08
245224-MX-5	LIGHTWEIGHT HEAT SINKS AND LED LAMPS	Granted	Mexico	Non Provisional	MX/a/2013/003422	2011-03-18	325708	2014-11-27
245224-NL-16	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	Netherlands	Non Provisional	11713109.4	2011-03-18	2622267	2016-04-27
245224-US-2	LIGHTWEIGHT HEAT SINKS AND LED LAMPS EMPLOYING SAME	Granted	United States of America	Non Provisional	12/979573	2010-12-28	8672516	2014-03-18
245224-VN-11	Multifunctional HeatFins for LED Lamp Optical and Thermal Management	Granted	Vietnam	Non Provisional	1201301341	2011-03-18	17098	2017-06-20
245284-CN-8	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	Granted	China	Non Provisional	201180036888.9	2011-07-25	103081567	2016-03-23
245284-EP-5	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	Published	European Patent	Non Provisional	11749600.0	2011-07-25		
245284-JP-6	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	Granted	Japan	Non Provisional	2013-521870	2011-07-25	5868404	2016-01-15

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245284-KR-7	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	Granted	Korea, Republic of (KR)	Non Provisional	1020137004798	2011-07-25	101885933	2018-08-06
245284-TW-3	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	Granted	Taiwan	Non Provisional	100126837	2011-07-28	I589033	2017-06-21
245284-US-2	PHOSPHOR SUSPENDED IN SILICONE, MOLDED/FORMED AND USED IN A REMOTE PHOSPHOR CONFIGURATION	Granted	United States of America	Non Provisional	13/187592	2011-07-21	8835199	2014-09-16
245302-US-2	LIGHT EMITTING DIODE (LED) BASED LAMP	Granted	United States of America	Non Provisional	12/896314	2010-10-01	8414151	2013-04-09
250388-BR-7	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Application	Brazil	Non Provisional	112013018378-0	2011-12-21		
250388-CN-5	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	China	Non Provisional	201180065492.7	2011-12-21	103354886	2016-08-10
250388-DE-11	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	Germany (Federal Republic of)	Non Provisional	11811463.6	2011-12-21	2665967	2015-04-15
250388-GB-12	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	United Kingdom	Non Provisional	11811463.6	2011-12-21	2665967	2015-04-15
250388-IN-9	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Published	India	Non Provisional	5368/DELNP/2013	2011-12-21		
250388-JP-6	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	Japan	Non Provisional	2013-550473	2011-12-21	5855135	2015-12-18
250388-KR-10	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	Korea, Republic of (KR)	Non Provisional	1020137018979	2011-12-21	10-1920510	2018-11-14
250388-MX-8	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	Mexico	Non Provisional	MX/a/2013/008428	2011-12-21	325568	2014-11-20
250388-NL-13	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	Netherlands	Non Provisional	11811463.6	2011-12-21	2665967	2015-04-15
250388-US-2	LED LIGHT ENGINE/HEAT SINK ASSEMBLY	Granted	United States of America	Non Provisional	13/323038	2011-12-12	9127816	2015-09-08
253990-US-1	LAMP	Granted	United States of America	Design	29/404991	2011-10-27	D668362	2012-10-02
253992-JP-2	LAMP	Granted	Japan	Design	2012-008926	2012-04-17	1458769	2012-11-30
253992-MX-3	LAMP	Granted	Mexico	Design	MX/f/2012/001322	2012-04-27	38663	2013-05-10
253992-US-1	LAMP	Granted	United States of America	Design	29/404955	2011-10-27	D668361	2012-10-02
254037-AU-6	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	Granted	Australia	Non Provisional	2015246150	2012-07-12	2015246150	2017-09-21
254037-CA-4	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	Application	Canada	Non Provisional	2852884	2012-07-12		
254037-CA-7	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	Application	Canada	Non Provisional		2012-07-12		
254037-US-1	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	Granted	United States of America	Non Provisional	13/189052	2011-07-22	8608347	2013-12-17
254037-US-3	LIGHTING APPARATUS WITH A LIGHT SOURCE COMPRISING LIGHT EMITTING DIODES	Granted	United States of America	Non Provisional	14/079992	2013-11-14	9416952B2	2016-08-16
254047-CN-2	LAMP	Granted	China	Design	201230017702.2	2012-01-20	201230017702.2	2013-02-13
254047-EM-5	LAMP	Granted	European Union	Design	1310809	2012-01-20	1310809-0001	2012-01-20
254047-MX-4	LAMP	Granted	Mexico	Design	MX/F/2012/000249	2012-01-20	38269	2013-03-14
254047-US-1	LAMP	Granted	United States of America	Design	29/397912	2011-07-22	D660991	2012-05-29
254088-CN-4	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHTEMITTING DIODES	Granted	China	Non Provisional	201280066241.5	2012-10-05	104025710	2018-06-08
254088-EP-3	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHTEMITTING DIODES	Published	European Patent	Non Provisional	12773479.6	2012-10-05		

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254088-KR-5	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHTEMITTING DIODES	Granted	Korea, Republic of (KR)	Non Provisional	20147015329	2012-10-05	10-2013971	2019-08-19
254088-US-1	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHT-EMITTING DIODES	Granted	United States of America	Non Provisional	13/290589	2011-11-07	9730294	2017-08-08
256956-AU-9	Non-imaging Fresnel lens for LED lamps	Granted	Australia	Non Provisional	2016204281	2013-01-30	2016204281	2017-10-19
256956-CA-7	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	Granted	Canada	Non Provisional	2862702	2013-01-30	5,789,115	2019-11-28
256956-CN-3	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	Granted	China	Non Provisional	201380007897.4	2013-01-30	104145158	2017-10-27
256956-NZ-6	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	Application	New Zealand	Non Provisional	627462	2013-01-30		
256956-NZ-8	Non-imaging Fresnel lens for LED lamps	Granted	New Zealand	Non Provisional	720860	2013-01-30	720860	2018-03-23
256956-US-1	OPTICAL SYSTEM AND LIGHTING DEVICE COMPRISED THEREOF	Granted	United States of America	Non Provisional	13/365949	2012-02-03	9464784B2	2016-10-11
258399-AU-8	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	Granted	Australia	Non Provisional	2013296992	2013-06-27	2013296992	2017-06-22
258399-BR-6	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	Application	Brazil	Non Provisional	112015001967-6	2013-06-27		
258399-CA-9	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	Granted	Canada	Non Provisional	2879388	2013-06-27	2,879,388	2018-11-27
258399-CN-10	Inner lens optics for Omnidirectional lamp	Granted	China	Non Provisional	201611095526.8	2013-06-27	ZL201611095526.8	2019-09-24
258399-CN-4	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	Granted	China	Non Provisional	201380041269.8	2013-06-27	104755988	2017-07-28
258399-EP-3	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	Published	European Patent	Non Provisional	13742302.6	2013-06-27		
258399-KR-7	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	Application	Korea, Republic of (KR)	Non Provisional	1020157005463	2013-06-27		
258399-MX-5	OMNI-DIRECTIONAL REFLECTOR COMPRISING A FRUSTO-CONICAL SURFACE FOR A LIGHT-EMITTING DIODE	Granted	Mexico	Non Provisional	MX/A/2015/001515	2013-06-27	338948	2016-05-05
259427-US-1	Light Emitting Diode Lamp	Granted	United States of America	Design	29/418358	2012-04-16	D691745	2013-10-15
260163-CA-9	Optical system for BR LED replacement lamps	Granted	Canada	Non Provisional	2905246	2014-02-21	2,905,246	2019-01-08
260163-CN-6	Optical system for BR LED replacement lamps	Granted	China	Non Provisional	201480027463.5	2014-02-21	ZL201480027463.5	2019-04-19
260163-EP-5	Optical system for BR LED replacement lamps	Published	European Patent	Non Provisional	14711037.3	2014-02-21		
260163-JP-7	Optical system for BR LED replacement lamps	Granted	Japan	Non Provisional	2016-500327	2014-02-21	6360145	2018-06-29
260163-KR-8	OPTICAL SYSTEM FOR A DIRECTIONAL LAMP	Published	Korea, Republic of (KR)	Non Provisional	1020157028302	2014-02-21	101938034	2019-01-07
260163-MX-4	Optical system for BR LED replacement lamps	Granted	Mexico	Non Provisional	MX/A/2015/012160	2014-02-21	349762	2017-08-10
260163-US-1	OPTICAL SYSTEM FOR A DIRECTIONAL LAMP	Granted	United States of America	Non Provisional	13/802987	2013-03-14	9188312	2015-11-17
260242-CA-4	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	Application	Canada	Non Provisional	2896452	2013-11-08		
260242-CN-5	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	Granted	China	Non Provisional	201380072423.8	2013-11-08	104956770	2018-05-11

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260242-EP-6	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	Published	European Patent	Non Provisional	13795118.2	2013-11-08		
260242-KR-7	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	Examination Requested	Korea, Republic of (KR)	Non Provisional	10-2015-7017930	2013-11-08		
260242-TW-3	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	Granted	Taiwan	Non Provisional	102143590	2013-11-28	I606414	2017-11-21
260242-US-1	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	Granted	United States of America	Non Provisional	13/706511	2012-12-06	9767522	2017-09-19
260242-US-8	SYSTEM AND METHOD FOR MONITORING USE OF A LAMP	Published	United States of America	Non Provisional	15/685427	2017-08-24		
260556A-CN-3	OPTICS SYSTEM FOR SOLID STATE LIGHTING APPARATUS	Granted	China	Utility Model	201390000447.8	2013-05-03	201390000447.8	2015-09-23
260556A-US-2	OPTICS SYSTEM FOR SOLID STATE LIGHTING APPARATUS	Granted	United States of America	Non Provisional	14/398887	2013-05-03	9841175	2017-12-12
260556-CN-5	LAMP WITH HEAT SINK AND ACTIVE COOLING DEVICE	Published	China	Non Provisional	201380023503.4	2013-05-03		
260556-EP-4	LAMP WITH HEAT SINK AND ACTIVE COOLING DEVICE	Granted	European Patent	Non Provisional	13724956.1	2013-05-03	2844916	2019-04-03
260556-US-2	LED LAMP	Granted	United States of America	Design	29/420071	2012-05-04	D674927	2013-01-22
262372-US-1	LAMP WITH LIGHT EMITTING ELEMENTS SURROUNDING ACTIVE COOLING DEVICE	Granted	United States of America	Non Provisional	13/665959	2012-11-01	9500355B2	2016-11-22
263287-US-1	ACTIVE COOLING DEVICE	Granted	United States of America	Non Provisional	13/710782	2012-12-11	9587820	2017-03-07
263996-CA-4	THREE-WAY LAMP WITH PROGRAMMABLE OUTPUT LEVELS	Application	Canada	Non Provisional	2922489	2014-07-25		
263996-TW-3	HOW THREE-WAY LAMP WITH PROGRAMMABLE OUTPUT LEVELS	Granted	Taiwan	Non Provisional	103128643	2014-08-20	I639356	2018-10-21
263996-US-1	High Output Three-way lamp with consumer programable output levels	Granted	United States of America	Non Provisional	14/013157	2013-08-29	9125271	2015-09-01
264543-CN-1	A lighting device a lighting assembly and a regulating element	Published	China	Non Provisional	201310666489.1	2013-12-10		
264543-TW-3	A lighting device a lighting assembly and a regulating element	Published	Taiwan	Non Provisional	103140869	2014-11-25		
264692-CA-7	LED LAMP WITH ND-GLASS BULB	Granted	Canada	Non Provisional	2888268	2013-10-18	2888268	2019-05-07
264692-CN-8	LED LAMP WITH ND-GLASS BULB	Published	China	Non Provisional	201380066484.3	2013-10-18		
264692-DE-14	LED LAMP WITH ND-GLASS BULB	Granted	Germany (Federal Republic of)	Non Provisional	13785746.2	2013-10-18	602013043222.8	2018-09-05
264692-DK-15	LED LAMP WITH ND-GLASS BULB	Granted	Denmark	Non Provisional	13785746.2	2013-10-18	2909527	2018-09-05
264692-EP-9	LED LAMP WITH ND-GLASS BULB	Granted	European Patent	Non Provisional	13785746.2	2013-10-18	2909527	2018-09-05
264692-GB-16	LED LAMP WITH ND-GLASS BULB	Granted	United Kingdom	Non Provisional	13785746.2	2013-10-18	2909527	2018-09-05
264692-HU-17	LED LAMP WITH ND-GLASS BULB	Granted	Hungary	Non Provisional	13785746.2	2013-10-18	2909527	2018-09-05
264692-JP-10	LED LAMP WITH ND-GLASS BULB	Granted	Japan	Non Provisional	2015-538048	2013-10-18	6247694	2017-11-24
264692-MX-12	LED LAMP WITH ND-GLASS BULB	Granted	Mexico	Non Provisional	MX/A/2015/004952	2013-10-18	349277	2017-07-20

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264692-NL-18	LED LAMP WITH ND-GLASS BULB	Granted	Netherlands	Non Provisional	13785746.2	2013-10-18	2909527	2018-09-05
264692-US-3	LED LAMP WITH ND-GLASS BULB	Granted	United States of America	Non Provisional	14/056328	2013-10-17	9612002	2017-04-04
265733-MX-2	LED LAMP	Granted	Mexico	Design	MX/f/2013/002869	2013-09-20	44596	2015-07-21
265733-US-1	LED LAMP	Granted	United States of America	Design	29/450990	2013-03-27	D695927	2013-12-17
267238-CA-4	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	Granted	Canada	Design	152860	2013-09-12	152860	2014-10-24
267238-CN-3	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	Granted	China	Design	201330441103.8	2013-09-13	201330441103.8	2014-11-12
267238-EM-2	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	Granted	European Union	Design	002308536	2013-09-13	002308536-0001	2013-09-13
267238-MX-5	DECO CANDLE LED LAMP WITH ELEVATED LIGHT SOURCE	Granted	Mexico	Design	MX/f/2013/002814	2013-09-13	43404	2015-02-06
267238-US-1	LED LAMP WITH AN ELEVATED LIGHT UNIT	Granted	United States of America	Design	29/448755	2013-03-13	D732709	2015-06-23
267909-TW-2	DIRECTIONAL LAMP WITH ADJUSTABLE BEAM SPREAD	Granted	Taiwan	Non Provisional	103117510	2014-05-19	I628389	2018-07-01
267909-US-1	DIRECTIONAL LAMP WITH ADJUSTABLE BEAM SPREAD	Granted	United States of America	Non Provisional	13/906387	2013-05-31	9303846B2	2016-04-05
269585-US-1	UNITARY HEAT SINK FOR SOLID STATE LAMP	Granted	United States of America	Non Provisional	14/574414	2014-12-18	9664343	2017-05-30
270742-BO-6	LED LAMP WITH STIPPLED LENS	Granted	Bolivia	Design	SP-109-2014	2014-03-26	6590-B	2016-10-31
270742-CL-5	LED LAMP WITH STIPPLED LENS	Granted	Chile	Design	1189-2014	2014-05-07	8.125	2016-08-04
270742-EM-2	LED LAMP WITH STIPPLED LENS	Granted	European Union	Design	002427054	2014-03-18	002427054	2014-03-18
270742-PE-7	LED LAMP WITH STIPPLED LENS	Granted	Peru	Design	417.2014	2014-03-26	4480	2016-03-22
270742-SG-3	LED LAMP WITH STIPPLED LENS	Granted	Singapore	Design	D2014/343/E	2014-03-20	D2014/343/E	2014-05-02
270742-TR-9	LED LAMP WITH STIPPLED LENS	Granted	Turkey	Design	2014/02278	2014-03-24	2014 02278	2014-06-01
270742-US-1	LED LAMP WITH STIPPLED LENS	Granted	United States of America	Design	29/468115	2013-09-26	D732710	2015-06-23
271073-BR-7	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	Application	Brazil	Non Provisional	112016008265-6	2014-10-29		
271073-CA-3	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	Allowed	Canada	Non Provisional	2928432	2014-10-29		
271073-CN-6	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	Granted	China	Non Provisional	201480059977.9	2014-10-29	ZL201480059977.9	2019-04-23
271073-EP-5	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	Published	European Patent	Non Provisional	14802240.3	2014-10-29		
271073-MX-4	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT.	Published	Mexico	Non Provisional	2016005675	2014-10-29	361524	2018-12-07
271073-US-1	LAMP HAVING LENS ELEMENT FOR DISTRIBUTING LIGHT	Granted	United States of America	Non Provisional	14/068414	2013-10-31	9506624B2	2016-11-29
271455-BR-3	LED DIRECTIONAL LAMP WITH LENS	Granted	Brazil	Design	302015002002-4	2015-04-13	302015002002	2017-08-01
271455-BR-7	Smooth Par Lamp Par38/30/20	Granted	Brazil	Design	322016005759-4	2016-12-12	322016005759-4	2017-11-07
271455-CA-5	LED DIRECTIONAL LAMP WITH LENS	Granted	Canada	Design	161897	2015-04-13	161897	2016-01-07
271455-CA-6	Smooth Par Lamp Par38/30/20	Granted	Canada	Design	165183	2015-11-05	165183	2016-01-07
271455-EM-2	LED DIRECTIONAL LAMP WITH LENS	Granted	European Union	Design	002690537-0001	2015-04-28	002690537-0001	2015-04-28
271455-MX-4	LED DIRECTIONAL LAMP WITH LENS	Granted	Mexico	Design	MX/F/2015/001238	2015-04-13	48952	2017-02-03
271455-MX-8	Smooth Par Lamp Par38/30/20	Granted	Mexico	Design	MX/F/2017/000350	2017-02-02	51249	2017-11-01
271455-US-1	LED DIRECTIONAL LAMP WITH LENS	Granted	United States of America	Design	29/506035	2014-10-13	D794837	2017-08-15
271590-AU-8	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Allowed	Australia	Non Provisional	2014315049	2014-09-09		

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271590-BR-9	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Application	Brazil	Non Provisional	112016005086-0	2014-09-09		
271590-CA-11	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Examination Requested	Canada	Non Provisional	2923187	2014-09-09		
271590-CN-6	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Granted	China	Non Provisional	201480061293.2	2014-09-09	105683653	2019-01-22
271590-EP-4	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Published	European Patent	Non Provisional	14842487.2	2014-09-09		
271590-JP-5	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Application	Japan	Non Provisional	2016-540937	2014-09-09		
271590-KR-7	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Examination Requested	Korea, Republic of (KR)	Non Provisional	1020167008964	2014-09-09		
271590-MX-10	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Allowed	Mexico	Non Provisional	MX/A/2016/003053	2014-09-09		
271590-TW-3	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Published	Taiwan	Non Provisional	103131905	2014-09-16		
271590-US-12	ENHANCED COLOR-PREFERENCE LIGHT SOURCES	Granted	United States of America	Non Provisional	14/917,870	2014-09-09	10,196,565	2019-02-05
272656-US-1	STRUCTURES SUBJECTED TO THERMAL ENERGY AND THERMAL MANAGEMENT METHODS THEREFOR	Granted	United States of America	Non Provisional	14/567270	2014-12-11	10001256	2018-06-19
272931-CN-2	LAMP WITH LED CHIPS COOLED BY A PHASE TRANSFORMATION LOOP	Published	China	Non Provisional	201510982991.2	2015-12-24		
272931-US-1	LAMP WITH LED CHIPS COOLED BY A PHASE TRANSFORMATION LOOP	Granted	United States of America	Non Provisional	14/583039	2014-12-24	9401468B2	2016-07-26
273563-WO-2	A19 Lamp Design Using Light Emitting Diodes	Application	Patent Cooperation Treaty	Non Provisional	PCT/US2018/27200	2018-04-12		
273601-US-1	LIGHT BULB	Granted	United States of America	Design	29/486580	2014-03-31	D732717	2015-06-23
274439-CN-2	REFLECTOR AND LAMP COMPRISED THEREOF	Published	China	Non Provisional	201511035930.1	2015-11-10		
274439-US-1	REFLECTOR AND LAMP COMPRISED THEREOF	Granted	United States of America	Non Provisional	14/536,957	2014-11-10	10,139,095	2018-11-27
275328-CN-1	LED LAMP	Published	China	Non Provisional	201410654638.7	2014-11-17		
275441-AU-10	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Examination Requested	Australia	Non Provisional	2014408631	2014-10-08		
275441-BR-9	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Application	Brazil	Non Provisional	112017006964-4	2014-10-08		
275441-CA-7	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Application	Canada	Non Provisional	2963171	2014-10-08		
275441-CN-4	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Published	China	Non Provisional	201480082766.7	2014-10-08		
275441-EP-3	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Published	European Patent	Non Provisional	14903619.6	2014-10-08		
275441-IN-12	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Application	India	Non Provisional	201747013831	2014-10-08		
275441-JP-5	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Application	Japan	Non Provisional	2017-518287	2014-10-08		
275441-KR-6	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Application	Korea, Republic of (KR)	Non Provisional	1020177012079	2014-10-08		
275441-MX-8	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Published	Mexico	Non Provisional	MX/A/2017/004648	2014-10-08		
275441-MY-11	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Application	Malaysia	Non Provisional	2017701023	2014-10-08		
275441-TW-2	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Published	Taiwan	Non Provisional	104133077	2015-10-07		
275441-US-13	MATERIALS AND OPTICAL COMPONENTS FOR COLOR FILTERING IN A LIGHTING APPARATUS	Published	United States of America	Non Provisional	15/515755	2014-10-08		
275459-CA-5	LIGHTING APPARATUS	Application	Canada	Non Provisional	2968975	2015-12-01		
275459-TW-3	LIGHTING APPARATUS	Examination Requested	Taiwan	Non Provisional	104140827	2015-12-04		

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275459-US-4	LIGHTING APPARATUS	Published	United States of America	Non Provisional	15/529849	2015-12-01		
275877-AU-10	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Application	Australia	Non Provisional	2016244183	2016-10-11		
275877-BR-9	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Published	Brazil	Non Provisional	102016024252-5	2016-10-18		
275877-CA-7	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Application	Canada	Non Provisional	2944470	2016-10-06		
275877-CN-4	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Published	China	Non Provisional	201610909566.5	2016-10-19		
275877-EP-3	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Published	European Patent	Non Provisional	16194150.5	2016-10-17		
275877-IN-12	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Application	India	Non Provisional	201644035129	2016-10-14		
275877-JP-5	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Examination Requested	Japan	Non Provisional	2016-200502	2016-10-12		
275877-MX-8	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Published	Mexico	Non Provisional	MX/A/2016/013679	2016-10-18		
275877-MY-11	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Application	Malaysia	Non Provisional	PI 2016703520	2016-09-26		
275877-TW-2	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Granted	Taiwan	Non Provisional	105132230	2016-10-05	I646284	2019-01-01
275877-US-1	REMOTE PHOSPHOR LIGHTING DEVICES AND METHODS	Granted	United States of America	Non Provisional	14/886781	2015-10-19	9970629	2018-05-15
276116-US-2	LIGHTING SYSTEM WITH ACTIVELY CONTROLLABLE OPTICS AND METHOD	Granted	United States of America	Non Provisional	14/850596	2015-09-10	9841167	2017-12-12
276170-TW-3	WIRELESS BEHAVIORAL FEEDBACK FOR ACTIVE LIGHTING CONTROL	Granted	Taiwan	Non Provisional	105136487	2016-11-09	I642327	2018-11-21
276170-US-1	WIRELESS BEHAVIORAL FEEDBACK FOR ACTIVE LIGHTING CONTROL	Granted	United States of America	Non Provisional	14/948912	2015-11-23	9642218	2017-05-02
276428-US-1	LAMP BASE HAVING INTEGRAL SEMICONDUCTOR TRANSIENT PROTECTION DEVICE	Granted	United States of America	Non Provisional	14/572224	2014-12-16	9462656B2	2016-10-04
276824-CN-7	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	Published	China	Non Provisional	201580054742.5	2015-10-07		
276824-JP-5	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	Application	Japan	Non Provisional	2017-516838	2015-10-07		
276824-KR-6	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	Application	Korea, Republic of (KR)	Non Provisional	1020177012241	2015-10-07		
276824-TW-4	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	Published	Taiwan	Non Provisional	104133048	2015-10-07		
276824-US-2	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	Published	United States of America	Non Provisional	14/876366	2015-10-06		
276824-VN-9	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	Application	Vietnam	Non Provisional	1201701007	2015-10-07		
277975-CA-3	WARM DIMMING FOR AN LED LIGHT SOURCE	Application	Canada	Non Provisional	2992994	2016-07-25		
277975-US-1	WARM DIMMING FOR AN LED LIGHT SOURCE	Granted	United States of America	Non Provisional	14/809892	2015-07-27	9668307	2017-05-30
278033A-CA-3	LED LAMP WITH INTERNAL MIRROR	Application	Canada	Non Provisional	2979409	2016-03-14		
278033A-CN-4	LED LAMP WITH INTERNAL MIRROR	Published	China	Non Provisional	201680027451.1	2016-03-14		
278033A-US-2	LED LAMP WITH INTERNAL MIRROR	Granted	United States of America	Non Provisional	15/557,655	2016-03-14	10,197,230	2019-02-05
278033-CA-3	LED LAMP WITH INTERNAL MIRROR	Application	Canada	Non Provisional	2978463	2016-03-14		
278033-CN-4	LED LAMP WITH INTERNAL MIRROR	Published	China	Non Provisional	201680015297.6	2016-03-14		

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278033-US-5	LED LAMP WITH ENCAPSULATED DRIVER AND SAFETY CIRCUIT	Application	United States of America	Non Provisional	15/549539	2016-03-14		
278821-AR-9	LIGHT STICK LAMP	Granted	Argentina	Design	88355	2015-04-23	88355	2015-04-23
278821-CA-14	LIGHT STICK LAMP	Granted	Canada	Design	162007	2015-04-21	162007	2015-11-19
278821-CL-11	LIGHT STICK LAMP	Granted	Chile	Design	1019-2015	2015-04-22	8.599	2017-04-26
278821-CN-5	LIGHT STICK LAMP	Granted	China	Design	201530116199.X	2015-04-27	201530116199.X	2015-11-18
278821-CO-10	LIGHT STICK LAMP	Granted	Colombia	Design	15095060	2015-04-27	8863	2015-12-03
278821-EM-4	LIGHT STICK LAMP	Granted	European Union	Design	002688358	2015-04-24	002688358	2015-04-24
278821-JP-6	LIGHT STICK LAMP	Granted	Japan	Design	2015-008829	2015-04-20	1551048	2016-04-28
278821-KR-15	LIGHT STICK LAMP	Granted	Korea, Republic of (KR)	Design	30-2015-0019635	2015-04-17	30-0881911-0000	2016-11-14
278821-MX-8	LIGHT STICK LAMP	Granted	Mexico	Design	MX/F/2015/001369	2015-04-24	47331	2016-07-06
278821-PE-12	LIGHT STICK LAMP	Granted	Peru	Design	548.15	2015-04-23	4423	2015-12-31
278821-US-1	Design patent for light stick, design 1#	Granted	United States of America	Design	29/507347	2014-10-27	D741519	2015-10-20
278821-VE-13	LIGHT STICK LAMP	Published	Venezuela	Design	15-388	2015-04-27		
278823-AR-6	LED LIGHT STICK LAMP	Granted	Argentina	Design	88621	2015-06-17	88621	2015-06-17
278823-CL-8	LED LIGHT STICK LAMP	Granted	Chile	Design	2015-01830	2015-06-24	8.645	2017-09-05
278823-CN-9	LED LIGHT STICK LAMP	Granted	China	Design	201530210994.5	2015-06-24	303580651	2016-02-03
278823-CO-10	LED LIGHT STICK LAMP	Granted	Colombia	Design	15145.198	2015-06-24	8886	2016-01-06
278823-DO-2	LED LIGHT STICK LAMP	Granted	Dominican Republic	Design	D2015-0152	2015-06-16	D2015-0152	2015-10-30
278823-MX-3	LED LIGHT STICK LAMP	Granted	Mexico	Design	MX/F/2015/001966	2015-06-23	48789	2017-01-17
278823-PE-4	LED LIGHT STICK LAMP	Granted	Peru	Design	1182.15	2015-06-23	1182.15	2015-12-18
278823-US-1	Design patent application, light stick, design 3#	Granted	United States of America	Design	29/513041	2014-12-24	D756544S1	2016-05-17
278893-CA-3	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	Application	Canada	Non Provisional	3016820	2016-03-16		
278893-CN-4	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	Examination Requested	China	Non Provisional	201680083708.5	2016-03-16		
278893-JP-5	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	Examination Requested	Japan	Non Provisional	2018-548065	2016-03-16		
278893-KR-6	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	Application	Korea, Republic of (KR)	Non Provisional	10-2018-7029257	2016-03-16		
278893-MX-7	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN.	Published	Mexico	Non Provisional	2018011248	2016-03-16		
278893-TW-2	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	Published	Taiwan	Non Provisional	106107252	2017-03-06		
278893-US-8	LED APPARATUS EMPLOYING NEODYMIUM BASED MATERIALS WITH VARIABLE CONTENT OF FLUORINE AND OXYGEN	Allowed	United States of America	Non Provisional	16/078,383	2016-03-16		
279283-CN-2	HEATSINK WITH INTEGRATED ELECTRICAL AND BASE CONTACTS	Published	China	Non Provisional	201610812024.6	2016-09-09		
279283-US-1	HEATSINK WITH INTEGRATED ELECTRICAL AND BASE CONTACTS	Granted	United States of America	Non Provisional	14/850010	2015-09-10	9970646	2018-05-15
279295-US-1	COLOR-SHIFTED LAMPS USING NEODYMIUM-FLUORINE CONTAINING COATING	Allowed	United States of America	Non Provisional	14/931476	2015-11-03		
279295-WO-2	COLOR-SHIFTED LAMPS USING NEODYMIUM-FLUORINE CONTAINING COATING	Published	Patent Cooperation Treaty	Non Provisional	PCT/US16/59974	2016-11-02		

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279479-CN-2	LAMP DESIGN WITH LED STEM STRUCTURE	Published	China	Non Provisional	201611151608.X	2016-10-28		
279479-US-3	LAMP DESIGN WITH LED STEM STRUCTURE	Granted	United States of America	Non Provisional	16/138,181	2018-09-21	10,415,770	2019-09-17
279479-US-4	LAMP DESIGN WITH LED STEM STRUCTURE	Acknowledged	United States of America	Non Provisional	16/573,563	2019-09-17		
279578-US-1	LED Retrofit Lamp - design patent	Granted	United States of America	Design	29/510861	2014-12-03	D750284S1	2016-02-23
279603-US-1	LED LAMP	Granted	United States of America	Design	29/510862	2014-12-03	D750285S1	2016-02-23
279708A-CN-1	LED LAMP	Granted	China	Design	201530460093.1	2015-11-17	201530460093.1	2016-08-24
279708A-EM-3	LED LAMP	Granted	European Union	Design	003126457	2016-05-13	0031264570001	2016-05-13
279708A-US-2	LED LAMP	Granted	United States of America	Design	29/564569	2016-05-13	D791370	2017-07-04
279708-CN-1	Extended facet feature on lens surface to mimic the reflector appearance for LED directional lamps. (file as DESIGN patent)	Granted	China	Design	201530460092.7	2015-11-17	201530460092.7	2016-09-07
279708-EM-4	LED LAMP	Granted	European Union	Design	003126796	2016-05-13	0031267960001	2016-05-13
279708-US-3	LED LAMP	Granted	United States of America	Design	29/564547	2016-05-13	D791369	2017-07-04
280131-TW-2	BATTERY BACK UP LAMP USING AC WIRING ACTIVATION	Examination Requested	Taiwan	Non Provisional	105135107	2016-10-28		
280131-US-1	BATTERY BACK UP LAMP USING AC WIRING ACTIVATION	Granted	United States of America	Non Provisional	14/938930	2015-11-12	9832827	2017-11-28
280131-WO-3	BATTERY BACK UP LAMP USING AC WIRING ACTIVATION	Published	Patent Cooperation Treaty	Non Provisional	PCT/US2016/055868	2016-10-07		
281499-CN-1	LED dimmer, LED apparatus and LED system	Granted	China	Non Provisional	201510392344.6	2015-07-06	ZL201510392344.6	2019-05-10
281662B-AT-30	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Austria	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-BE-11	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Belgium	Non Provisional	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-BG-12	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Bulgaria	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-BR-5	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Brazil	Design	302016002295-0	2016-06-01	302016002295	2018-01-30
281662B-CN-2	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	China	Design	201630224766.8	2016-06-06	303938851	2016-11-23
281662B-CY-23	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Cyprus (Republic of)	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-CZ-13	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Czechia	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-DE-15	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Germany (Federal Republic of)	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-DK-14	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Denmark	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-EE-16	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Estonia	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-EM-39	Compact Fluorescent shape retrofit LED lamp with filament LED light source (HEXAGONAL)	Granted	European Union	Design	003170356-0002	2016-06-03	003170356-0002	2016-06-03
281662B-EM-8	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	European Union	Design	003170356-0001	2016-06-03	003170356-0001	2016-06-03

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281662B-ES-19	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Spain	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-FI-36	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Finland	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-FR-20	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	France	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-GB-38	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	United Kingdom	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-GR-18	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Greece	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-HR-21	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Croatia	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-HU-27	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Hungary	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-IE-17	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Ireland (Republic of)	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-IT-22	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Italy	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-JP-3	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Japan	Design	2016-011262	2016-05-27	1584508	2017-08-04
281662B-KR-4	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Korea, Republic of (KR)	Design	3020160025356	2016-05-26	3009081590001	2017-05-22
281662B-LT-25	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Lithuania	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-LU-26	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Luxembourg	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-LV-24	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Latvia	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-MT-28	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Malta	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-MX-6	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Mexico	Design	MX/F/2016/001747	2016-06-03	51385	2017-11-16
281662B-NL-29	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Netherlands	Non Provisional	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-PL-31	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Poland	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-PT-32	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Portugal	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662-BR-5	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Brazil	Design	302016002233-0	2016-05-30	30 2016 002233-0	2019-02-12
281662B-RO-33	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Romania	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-SE-37	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Sweden	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-SI-34	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Slovenia	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-SK-35	Compact Fluorescent shape retrofit LED lamp with filament LED light source HEXAGONAL	Granted	Slovak Republic	Design	003170380	2016-06-03	003170356-0001	2016-06-03
281662B-TR-9	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Turkey	Design	2016/04070	2016-05-24	2016/04070	2016-06-24
281662B-US-1	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	United States of America	Design	29/547644	2015-12-06	D789569	2017-06-13
281662C-AL-35	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Albania	Design	003170356	2016-06-03	003170356-0002	2016-06-03

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281662C-AT-21	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Austria	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-BE-9	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Belgium	Non Provisional	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-BG-10	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Bulgaria	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-BR-2	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Brazil	Design	302016002232-1	2016-05-30	30 2016 002232-1	2019-02-12
281662C-CN-3	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	China	Design	201630224763.4	2016-06-06	303938850	2016-11-23
281662C-CY-36	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Cyprus (Republic of)	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-CZ-11	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Czechia	Design	003170356	2016-06-03	003170356-0002	2018-06-03
281662C-DE-13	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Germany (Federal Republic of)	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-DK-12	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Denmark	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-EE-14	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Estonia	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-EM-5	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	European Union	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-ES-31	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Spain	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-FI-27	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Finland	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-FR-32	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	France	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-GB-29	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	United Kingdom	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-GR-30	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Greece	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-HR-33	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Croatia	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-HU-18	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Hungary	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-IE-15	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Ireland (Republic of)	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-IT-34	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Italy	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-JP-6	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Japan	Design	2016-011263	2016-05-27	1585456	2017-08-10
281662C-KR-7	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Korea, Republic of (KR)	Design	3020160024401	2016-05-23	300930693-0002	2017-11-06
281662C-LT-16	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Lithuania	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-LU-17	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Luxembourg	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-LV-37	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Latvia	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-MT-19	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Malta	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-MX-8	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Mexico	Design	MX/F/2016/001748	2016-06-03	51250	2017-11-01

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281662-CN-2	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	China	Design	201630224764.9	2016-06-06	304185627	2017-06-20
281662C-NL-20	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Netherlands	Non Provisional	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-PL-22	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Poland	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-PT-23	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Portugal	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-RO-24	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Romania	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-SE-28	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Sweden	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-SI-25	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Slovenia	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-SK-26	Compact Fluorescent shape retrofit LED lamp with filament LED light source OCTAGONAL	Granted	Slovak Republic	Design	003170356	2016-06-03	003170356-0002	2016-06-03
281662C-US-1	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	United States of America	Design	29/547645	2015-12-06	D790086	2017-06-20
281662-EM-10	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	European Union	Design	003143593-0002	2016-05-20	003143593-0002	2016-05-20
281662-EM-7	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	European Union	Design	003143593-0001	2016-05-20	003143593-0001	2016-05-20
281662-JP-3	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Japan	Design	2016-011260	2016-05-27	1577376	2017-04-28
281662-KR-4	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Korea, Republic of (KR)	Design	3020160024398	2016-05-23	3009306910001	2017-11-06
281662-MX-6	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	Mexico	Design	MX/F/2016/001745	2016-06-03	51236	2017-11-01
281662-US-1	RETROFIT LAMP WITH LED LIGHT SOURCE FILAMENT	Granted	United States of America	Design	29/547642	2015-12-06	D785821	2017-05-02
281833-CN-1	LED LAMP	Granted	China	Design	201530318687.9	2015-08-24	CN201530318687.9	2016-05-04
281833-US-2	LED LAMP	Granted	United States of America	Design	29/555687	2016-02-24	D794839	2017-08-15
282201-CA-4	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Application	Canada	Non Provisional	3007011	2016-12-06		
282201-CN-5	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Published	China	Non Provisional	201680072489.0	2016-12-06		
282201-JP-6	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Application	Japan	Non Provisional	2018-529287	2016-12-06		
282201-KR-7	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Application	Korea, Republic of (KR)	Non Provisional	1020187019280	2016-12-06		
282201-MX-8	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Published	Mexico	Non Provisional	MX/A/2018/007034	2016-12-06		
282201-TW-3	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Published	Taiwan	Non Provisional	105140480	2016-12-07		

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282201-US-1	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Published	United States of America	Non Provisional	14/966329	2015-12-11		
282201-WO-2	LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS	Published	Patent Cooperation Treaty	Non Provisional	PCT/US2016/065149	2016-12-06		
282246-CA-4	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	Application	Canada	Non Provisional	3009501	2016-12-29		
282246-CN-1	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	Granted	China	Non Provisional	201511015919.9	2015-12-29	106935696	2019-06-07
282246-JP-5	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	Examination Requested	Japan	Non Provisional	2018-533692	2016-12-29		
282246-MX-6	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	Published	Mexico	Non Provisional	MX/A/2018/008045	2016-12-29		
282246-TW-3	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	Examination Requested	Taiwan	Non Provisional	105143390	2016-12-27		
282246-US-7	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DETERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	Published	United States of America	Non Provisional	16/061479	2016-12-29		
282246-WO-2	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DTERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	Published	Patent Cooperation Treaty	Non Provisional	PCT/US2016/069236	2016-12-29		
285167-AR-9	LAMP	Application	Argentina	Design	90850	2016-10-14		
285167-AU-6	LAMP	Granted	Australia	Design	201615617	2016-10-04	201615617	2017-01-09
285167-BR-8	LAMP	Granted	Brazil	Design	302016004733-2	2016-10-14	302016004733-2	2017-09-12
285167-CA-3	LAMP	Granted	Canada	Design	170765	2016-10-04	170765	2017-07-12
285167-CL-11	LAMP	Granted	Chile	Design	2554-2016	2016-10-06	8.920	2018-01-29
285167-CN-1	LAMP	Granted	China	Design	201630206723.7	2016-05-27	CN201630206723.7	2017-03-08
285167-EM-15	LAMP	Granted	European Union	Design	003404391-0001	2016-10-04	003404391-0001	2016-10-04
285167-JP-14	LAMP	Granted	Japan	Design	2016-021772	2016-10-06	1581002	2017-06-16
285167-KR-13	LAMP	Granted	Korea, Republic of (KR)	Design	30-2016-0049167	2016-10-13	30-0923676-0000	2017-09-13
285167-MX-10	LAMP	Granted	Mexico	Design	MX/F/2016/003443	2016-11-07	51383	2017-11-16
285167-MY-5	LAMP	Granted	Malaysia	Design	16-00994-0101	2016-10-04	16-00994-0101	2018-01-19
285167-PH-7	LAMP	Granted	Philippines	Design	PH/3/2016/1118	2016-10-11	3/2016/001118	2018-04-06
285167-TH-12	LAMP	Granted	Thailand	Design	1602004298	2016-11-08	68481	2019-03-01
285167-TW-4	LAMP	Granted	Taiwan	Design	105306826	2016-11-14	D186469	2017-11-01
285167-US-2	LAMP	Granted	United States of America	Design	29/584591	2016-11-16	D808547	2018-01-23
310863-EM-2	LAMP	Granted	European Union	Design	003456680	2016-11-10	003456680-0001	2016-11-10
310863-US-1	BOTTOM PORTION OF LAMP	Granted	United States of America	Design	29/566268	2016-05-27	D791984	2017-07-11

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314689-CA-2	LAMP AND LIGHTING FIXTURE COMPRISING THE LAMP	Application	Canada	Non Provisional	2990134	2017-12-27		
314689-CN-1	LAMP AND LIGHTING FIXTURE COMPRISING THE LAMP	Published	China	Non Provisional	201611225008.3	2016-12-27		
314689-US-3	LAMP AND LIGHTING FIXTURE COMPRISING THE LAMP	Granted	United States of America	Non Provisional	15/854894	2017-12-27	10,520,182	2019-12-31
314807-CA-3	LED LAMP AND ASSEMBLING METHOD THEREOF	Application	Canada	Non Provisional	2990790	2018-01-04		
314807-CN-1	LED LAMP AND ASSEMBLING METHOD THEREOF	Published	China	Non Provisional	201710036140.8	2017-01-17		
314807-US-2	LED LAMP AND ASSEMBLING METHOD THEREOF	Granted	United States of America	Non Provisional	15/865643	2018-01-09	10,393,322	2019-08-27
314807-US-4	LED LAMP AND ASSEMBLING METHOD THEREOF	Acknowledged	United States of America	Non Provisional	16/553,124	2019-08-27		
315623-CA-2	LED BULB WITH GLASS ENVELOPE	Published	Canada	Non Provisional	3,043,641	2016-11-14		
315623-CN-3	LED BULB WITH GLASS ENVELOPE	Published	China	Non Provisional	201680091999.2	2016-11-14		
315623-US-4	LED BULB WITH GLASS ENVELOPE	Published	United States of America	Non Provisional	16/349,591	2019-05-13		
317731-CA-4	LOW REFRACTIVE INDEX NEODYMIUM FLUORIDE DOPED POLYCARBONATE	Application	Canada	Non Provisional	3,058,685			
317731-CN-3	LOW REFRACTIVE INDEX NEODYMIUM FLUORIDE DOPED POLYCARBONATE	Examination Requested	China	Non Provisional	201780090058.1	2017-02-28		
317731-TW-2	LOW REFRACTIVE INDEX NEODYMIUM FLUORIDE DOPED POLYCARBONATE	Published	Taiwan	Non Provisional	107106176	2018-02-23		
317731-US-5	LOW REFRACTIVE INDEX NEODYMIUM FLUORIDE DOPED POLYCARBONATE	Application	United States of America	Non Provisional	16/492,103	2017-02-28		
317731-WO-1	LOW REFRACTIVE INDEX NEODYMIUM FLUORIDE DOPED POLYCARBONATE	Published	Patent Cooperation Treaty	Non Provisional	PCT/CN2017/075209	2017-02-28		
317903-CA-3	LED LAMP	Application	Canada	Non Provisional	3006744	2018-05-30		
317903-CN-1	LED LAMP	Published	China	Non Provisional	201710447399.1	2017-06-14		
317903-US-2	LED LAMP	Application	United States of America	Non Provisional	15/989160	2018-05-24		
318826-CA-4	LED BATTERY BACKUP LAMP	Application	Canada	Non Provisional	3,060,082	2018-05-11		
318826-CN-3	LED BATTERY BACKUP LAMP	Application	China	Non Provisional	201880032117.4	2018-05-11		
318826-US-5	LED BATTERY BACKUP LAMP	To Be Filed	United States of America	Non Provisional	16/617,495	2019-11-26		

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318826-WO-2	LED BATTERY BACKUP LAMP	Published	Patent Cooperation Treaty	Non Provisional	PCT/US2018/032318	2018-05-11		
319472A-US-1	ULTRASONIC BRIDGE FOR WIRELESS COMMUNICATION	Application	United States of America	Non Provisional	15/944699	2018-04-03		
319472B-US-1	METHOD AND SYSTEM FOR MULTI-CHANNEL ACOUSTIC COMMUNICATION AND SENSING	Application	United States of America	Non Provisional	15/944707	2018-04-03		
319472-CA-3	Method and Apparatus for Wireless Control of Devices	Application	Canada	Non Provisional	3,058,796	2018-04-03		
319472-CN-4	Method and Apparatus for Wireless Control of Devices	Published	China	Non Provisional	201880023204.3	2018-04-03		
319472-WO-2	SYSTEM AND METHOD FOR PRESENCE DETECTION	Published	Patent Cooperation Treaty	Non Provisional	PCT/US18/25901	2018-04-03		
320869-CA-2	LAMP	Application	Canada	Non Provisional	3,024,222	2018-11-15		
320869-CN-1	LAMP	Application	China	Non Provisional	201711190699.2	2017-11-24		
320869-US-3	LAMP	Application	United States of America	Non Provisional	16/181,764	2018-11-06		
322732-CA-2	LED LAMP	Application	Canada	Non Provisional	3,034,433	2019-02-21		
322732-CN-1	LED LAMP	Published	China	Non Provisional	201810189396.7	2018-03-05		
322732-US-3	LED LAMP	Published	United States of America	Non Provisional	16/267,537	2019-02-05		
322952-CA-3	LED FILAMENT LAMPS WITH WHITE FILAMENT APPEARANCE	Application	Canada	Non Provisional	3,021,307	2018-10-18		
322952-CN-4	LED FILAMENT LAMPS WITH WHITE FILAMENT APPEARANCE	Published	China	Non Provisional	201811258982.9	2018-10-26		
322952-KR-5	LED FILAMENT LAMPS WITH WHITE FILAMENT APPEARANCE	Application	Korea, Republic of (KR)	Non Provisional	10-2018-0129163	2018-10-26		
322952-TW-6	LED FILAMENT LAMPS WITH WHITE FILAMENT APPEARANCE	Published	Taiwan	Non Provisional	107136175	2018-10-15		
322952-US-2	LED FILAMENT LAMPS WITH WHITE FILAMENT APPEARANCE	Granted	United States of America	Non Provisional	15/922021	2018-03-15	10,495,263	2019-12-03
323748-CA-2	LED LAMP	Application	Canada	Non Provisional	3,036,005	2019-03-07		
323748-CN-1	LED LAMP	Published	China	Non Provisional	201810200947.5	2018-03-12		
323748-US-3	LED LAMP	Published	United States of America	Non Provisional	16/295,359	2019-03-07		
324073-CA-3	DRIVER FOR LED AND LED SYSTEM	To Be Filed	Canada	Non Provisional				
324073-CN-1	DRIVER FOR LED AND LED SYSTEM	Published	China	Non Provisional	201810300160.6	2018-04-04		

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324073-US-4	DRIVER FOR LED AND LED SYSTEM	To Be Filed	United States of America	Non Provisional				
324073-WO-2	DRIVER FOR LED AND LED SYSTEM	Published	Patent Cooperation Treaty	Non Provisional	PCT/CN2019/081203	2019-04-03		
324640-CN-1	PRESENCE SENSING METHOD, PRESENCE SENSING DEVICE AND LIGHT SYSTEM	Application	China	Non Provisional	201810660549.1	2018-06-25		
324640-US-2	PRESENCE SENSING METHOD, PRESENCE SENSING DEVICE AND LIGHT SYSTEM	Allowed	United States of America	Non Provisional	16/452,172	2019-06-25		
325836-US-2	LED FILAMENT WITH COLORED OFF STATE MASKING	Application	United States of America	Non Provisional	16/543,508	2019-11-05		
326216-CN-1	END CAP ACCEMBLY, LAMP USING THE END CAP AND ACCEMBLING METHOD OF THE LAMP	Application	China	Non Provisional	201810933465.0	2018-08-16		
326216-US-2	END CAP ACCEMBLY, LAMP USING THE END CAP AND ACCEMBLING METHOD OF THE LAMP	Application	United States of America	Non Provisional	16/572,563	2019-09-16		
327798-CA-2	UV Disinfection Under Cabinet Light Optical System	Application	Canada	Non Provisional	3,060,616			
327798-CN-1	UV Disinfection Under Cabinet Light Optical System	Application	China	Non Provisional	201811269817.3	2018-10-29		
327798-US-3	UV Disinfection Under Cabinet Light Optical System	Application	United States of America	Non Provisional	16/661891	2019-10-29		
327799-CA-2	Self-adaptive UV Disinfection Light Fixture	Acknowledged	Canada	Non Provisional				
327799-CN-1	Self-adaptive UV Disinfection Light Fixture	Application	China	Non Provisional	201910113788.X	2019-02-14		
327799-US-3	Self-adaptive UV Disinfection Light Fixture	To Be Filed	United States of America	Non Provisional				
328282-CA-2	A PWM dimming circuit with low stand-by power for LED device	To Be Filed	Canada	Non Provisional				
328282-CN-1	A PWM dimming circuit with low stand-by power for LED device	Acknowledged	China	Non Provisional	201910295648.9	2019-04-12		
328282-US-3	A PWM dimming circuit with low stand-by power for LED device	To Be Filed	United States of America	Non Provisional				