

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6669269

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GE LIGHTING SOLUTIONS, LLC	03/30/2019
RECEIVING PARTY DATA	
Name:	CONSUMER LIGHTING (U.S.) LLC
Street Address:	1975 NOBLE ROAD
City:	EAST CLEVELAND
State/Country:	OHIO
Postal Code:	44112
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17236922
CORRESPONDENCE DATA	
Fax Number:	(240)912-7432
<i>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.</i>	
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Address Line 4:	GAITHERSBURG, MARYLAND 20878
ATTORNEY DOCKET NUMBER:	322732-US-5
NAME OF SUBMITTER:	OMORUYI OSULA
SIGNATURE:	/Omoruyi Osula/
DATE SIGNED:	04/21/2021
Total Attachments: 40	
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PATENT ASSIGNMENT AGREEMENT

This Patent Assignment Agreement (the "Assignment"), dated as of April 1, 2019, is by and between 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 901 Main Ave. Norwalk, Connecticut 06851, ("Assignee").

WHEREAS, Assignor is the owner of certain intellectual property listed on the attached Schedule A (the "Assigned Patent Registrations");

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"); and

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 Registrations, 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.

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 Registrations. 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 Registrations; (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.

GE LIGHTING SOLUTIONS, LLC

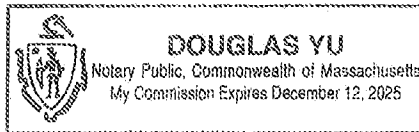
By: Cecilia D. Vega
Its: Sr. Exec Corporate IP Counsel, Transactions
Date: March 30, 2019

STATE OF Massachusetts)
) ss.
COUNTY OF Norfolk)

Before me, the undersigned authority, on this 30th day of March, 2019, personally appeared Cecilia A Vega 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 Assignor.

Douglas Yu
Notary Public

[Signature]
(Signature of Notary)



(Legibly Print or Stamp Name of Notary)

ACCEPTED BY:

CONSUMER LIGHTING (US) LLC

By: Cecilia D. Vega

Its: Sr Exec Corporate IP Counsel, TRANSACTIONS

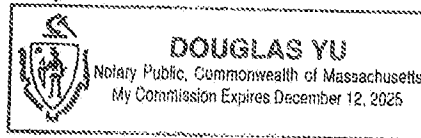
Date: March 30, 2019

STATE OF Massachusetts)
) ss.
COUNTY OF Norfolk)

Before me, the undersigned authority, on this 30th day of March, 2019, personally appeared Cecilia A. Vega 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.

Douglas Yu
Notary Public

[Signature]
(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	REL-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					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE	ORD-UTILITY PATENT FILING	12/979611	12/28/2010	9/24/2013	US8541933
US	Issued	THERMAL MANAGEMENT					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE					
		TRANSPARENT					
EP	Filed	THERMAL MANAGEMENT					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE	PCT-PATENT COOPERATION TREATY	11708124	7/25/2012		
		TRANSPARENT					
BR	Filed	THERMAL MANAGEMENT					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE	PCT-PATENT COOPERATION TREATY	112012017088-0	4/12/2016		
		TRANSPARENT					
CN	Issued	THERMAL MANAGEMENT					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE	PCT-PATENT COOPERATION TREATY	201180005962	7/12/2012	11/25/2015	CN201180005962.0
		TRANSPARENT					
AU	Issued	THERMAL MANAGEMENT					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE	PCT-PATENT COOPERATION TREATY	2011205461	7/31/2012	10/22/2015	AU2011205461
		TRANSPARENT					
JP	Issued	THERMAL MANAGEMENT					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE	PCT-PATENT COOPERATION TREATY	2012-548995	7/12/2012	5/12/2017	JP6139134
		TRANSPARENT					
KR	Filed	THERMAL MANAGEMENT					
		TRANSPARENT THERMALLY CONDUCTIVE POLYMER COMPOSITES FOR LIGHT SOURCE	PCT-PATENT COOPERATION TREATY	1020127020972	8/9/2012	4/10/2018	KR101847657
		TRANSPARENT					
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	TW1570380
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	TW1589033
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	2011180065492.7	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	PR-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 LIGHT-EMITTING DIODES	PCT-PATENT COOPERATION TREATY	12773479.6	5/9/2014		
CN	Filed	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHT-EMITTING DIODES	PCT-PATENT COOPERATION TREATY	20128006241.5	7/7/2014		
KR	Filed	LIGHTING DEVICE INCLUDING A DRIVE DEVICE CONFIGURED FOR DIMMING LIGHT-EMITTING 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 programmable 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 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/H/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	Brief 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	WIRELESS BEHAVIORAL FEEDBACK FOR ACTIVE LIGHTING CONTROL	ORD-UTILITY PATENT FILING	14/850596	9/10/2015	12/12/2017	US9841167
US	Issued	WIRELESS BEHAVIORAL FEEDBACK FOR ACTIVE LIGHTING CONTROL	ORD-UTILITY PATENT FILING	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 LAMP BASE HAVING INTEGRAL SEMICONDUCTOR TRANSIENT PROTECTION DEVICE	ORD-UTILITY PATENT FILING	105136487	11/9/2016		
US	Issued	LED APPARATUS EMPLOYING NEODYMIUM-FLUORINE MATERIALS	PRE-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	PRE-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 I#	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	EM0002688358

CO	Case Status	Title	Brief 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 #	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	PRE-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	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DETERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	ORD-UTILITY PATENT FILING	105140480	12/7/2016		
CN	Filed	COMPOSITE MATERIAL FOR LIGHTING FILTERING, LIGHTING APPARATUS, AND METHOD FOR DETERMINING 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 DETERMINING 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 DETERMINING DOPING CONCENTRATION OR THICKNESS OF COMPOSITE MATERIAL	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	MXS1383
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	TW1473291
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	TW1473291
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 ASSEMBLY, LAMP USING THE END CAP AND ASSEMBLING 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
US		ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	PI 2017700550	2/17/2017		
MY	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY				
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, NITRIDE, AND PFS PHOSPHORS	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					
		ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY				
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 YAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	1020177009584	4/7/2017		
MY	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, 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, NITRIDE, AND PFS PHOSPHORS	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					
		ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	15703175.8	3/1/2017		
EP	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	201747011927	4/3/2017		
IN	Filed	ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING LAG, NITRIDE, AND PFS PHOSPHORS	PCT-PATENT COOPERATION TREATY	2017-510659	2/22/2017		
JP	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	112017022622-7	10/20/2017		
BR	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	2016251580	10/20/2017		
AU	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY	PI2017703601	9/26/2017		
MY	Filed	MULTI-CHANNEL LAMP SYSTEM AND METHOD WITH MIXED SPECTRUM	PCT-PATENT COOPERATION TREATY				
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		

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