

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2879215

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
LIGHTING SCIENCE GROUP CORPORATION	02/19/2014
BIOLOGICAL ILLUMINATION, LLC	02/19/2014

RECEIVING PARTY DATA

Name:	MEDLEY CAPTIAL CORPORATION, AS AGENT
Street Address:	375 PARK AVENUE, SUITE 3304
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10152

PROPERTY NUMBERS Total: 285

Property Type	Number
Patent Number:	8672518
Patent Number:	8674608
Patent Number:	D700723
Patent Number:	D700735
Patent Number:	D683883
Patent Number:	D697650
Patent Number:	8491153
Patent Number:	8475002
Patent Number:	8465167
Patent Number:	D684285
Patent Number:	D659895
Patent Number:	D659880
Patent Number:	8439515
Patent Number:	D658803
Patent Number:	D679860
Patent Number:	8408725
Patent Number:	D677824
Patent Number:	D677807
Patent Number:	D676983
Patent Number:	D677811

PATENT

Property Type	Number
Patent Number:	D676982
Patent Number:	D676984
Patent Number:	D676583
Patent Number:	D650109
Patent Number:	8384984
Patent Number:	D689218
Patent Number:	8643276
Patent Number:	8631855
Patent Number:	8646942
Patent Number:	8628222
Patent Number:	8616715
Patent Number:	8608348
Patent Number:	8608341
Patent Number:	D694435
Patent Number:	8579471
Patent Number:	D691568
Patent Number:	8547391
Patent Number:	8545034
Patent Number:	D690613
Patent Number:	D689633
Patent Number:	D687998
Patent Number:	8506118
Patent Number:	D687986
Patent Number:	8476829
Patent Number:	D684709
Patent Number:	D684296
Patent Number:	8446095
Patent Number:	D682452
Patent Number:	D681874
Patent Number:	D681251
Patent Number:	8420022
Patent Number:	8401231
Patent Number:	D677808
Patent Number:	D676985
Patent Number:	8384299
Patent Number:	D676988
Patent Number:	D676987
Patent Number:	D676986
Patent Number:	D676584

PATENT

REEL. 033072 FRAME. 0396

Property Type	Number
Patent Number:	D675367
Patent Number:	D675348
Patent Number:	D674923
Patent Number:	D674928
Patent Number:	D673323
Patent Number:	8333488
Patent Number:	D672480
Patent Number:	8324815
Patent Number:	8324808
Patent Number:	8314565
Patent Number:	D671244
Patent Number:	8308318
Patent Number:	D670427
Patent Number:	D669607
Patent Number:	D667971
Patent Number:	8272762
Patent Number:	D666750
Patent Number:	8253336
Patent Number:	8231250
Patent Number:	8228284
Patent Number:	D663885
Patent Number:	D663446
Patent Number:	8201968
Patent Number:	8192047
Patent Number:	D661413
Patent Number:	D659266
Patent Number:	D658791
Patent Number:	8157413
Patent Number:	D656660
Patent Number:	8129734
Patent Number:	D654192
Patent Number:	D652564
Patent Number:	8087800
Patent Number:	8087798
Patent Number:	8079743
Patent Number:	D650519
Patent Number:	8038319
Patent Number:	D646013
Patent Number:	8004203

PATENT

REEL. 033072 FRAME. 0397

Property Type	Number
Patent Number:	7964883
Patent Number:	7922356
Patent Number:	D635105
Patent Number:	D632420
Patent Number:	7824065
Patent Number:	7824075
Patent Number:	7777235
Patent Number:	7758208
Patent Number:	7744252
Patent Number:	7728341
Patent Number:	7719021
Patent Number:	7708452
Patent Number:	7677770
Patent Number:	D608478
Patent Number:	7637643
Patent Number:	7633093
Patent Number:	7633779
Patent Number:	7619372
Patent Number:	D600850
Patent Number:	D595893
Patent Number:	D593247
Patent Number:	D592321
Patent Number:	D592349
Patent Number:	7528421
Patent Number:	D591440
Patent Number:	7521875
Patent Number:	D590099
Patent Number:	D585153
Patent Number:	D584846
Patent Number:	D584837
Patent Number:	D582602
Patent Number:	D577454
Patent Number:	D572385
Patent Number:	D570504
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Patent Number:	7367692
Patent Number:	7336140
Patent Number:	D560286
Patent Number:	7319293

PATENT

REEL. 033072 FRAME. 0396

Property Type	Number
Patent Number:	7300182
Patent Number:	D553265
Patent Number:	D553266
Patent Number:	D551379
Patent Number:	7252408
Patent Number:	7215086
Patent Number:	D538951
Patent Number:	D538950
Patent Number:	D538952
Patent Number:	7183640
Patent Number:	7176502
Patent Number:	7157745
Patent Number:	D532532
Patent Number:	D531740
Patent Number:	D528673
Patent Number:	7098483
Patent Number:	7095053
Patent Number:	D527119
Patent Number:	7086756
Patent Number:	D525379
Patent Number:	D525374
Patent Number:	7026891
Patent Number:	6759940
Patent Number:	6739047
Patent Number:	6720859
Patent Number:	6713862
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Patent Number:	6670856
Patent Number:	6518502
Patent Number:	6471805
Patent Number:	6455930
Patent Number:	6399230
Patent Number:	6361390
Patent Number:	6300267
Patent Number:	6191934
Patent Number:	6160469
Patent Number:	6140759
Patent Number:	6055151
Patent Number:	6017642

PATENT

REEL. 033072 FRAME. 0399

Property Type	Number
Patent Number:	6011330
Patent Number:	5958807
Patent Number:	5953203
Patent Number:	5929510
Patent Number:	5876536
Patent Number:	5866240
Patent Number:	5847935
Patent Number:	5681444
Patent Number:	5653834
Patent Number:	5565262
Patent Number:	5514451
Application Number:	13463020
Application Number:	13464292
Application Number:	13464345
Application Number:	13633914
Application Number:	13751180
Application Number:	13792354
Application Number:	13608999
Application Number:	29433714
Application Number:	29437877
Application Number:	13832900
Application Number:	13832878
Application Number:	61715075
Application Number:	61723491
Application Number:	29435363
Application Number:	13676539
Application Number:	61733044
Application Number:	13737581
Application Number:	13709942
Application Number:	29433354
Application Number:	13775936
Application Number:	13722581
Application Number:	13800253
Application Number:	61772755
Application Number:	29443158
Application Number:	13785652
Application Number:	61858414
Application Number:	13832969
Application Number:	13842868

PATENT

REEL. 033072 FRAME. 0400

Property Type	Number
Application Number:	13842998
Application Number:	13753890
Application Number:	13875855
Application Number:	13842875
Application Number:	13874748
Application Number:	13737606
Application Number:	13887799
Application Number:	13739665
Application Number:	13739893
Application Number:	13739054
Application Number:	13888564
Application Number:	29438757
Application Number:	13830390
Application Number:	13837643
Application Number:	29458558
Application Number:	13739286
Application Number:	13839131
Application Number:	29452780
Application Number:	13792986
Application Number:	13765256
Application Number:	61793903
Application Number:	14014512
Application Number:	61791487
Application Number:	61777585
Application Number:	14076621
Application Number:	13829832
Application Number:	61815018
Application Number:	61787174
Application Number:	13803825
Application Number:	29449863
Application Number:	13969090
Application Number:	14087338
Application Number:	13969103
Application Number:	13890684
Application Number:	29452910
Application Number:	29462045
Application Number:	29452779
Application Number:	13868880
Application Number:	61823013

PATENT

REEL. 033072 FRAME. 0401

Property Type	Number
Application Number:	14055346
Application Number:	14074173
Application Number:	14024280
Application Number:	14023675
Application Number:	13955891
Application Number:	14044939
Application Number:	14084118
Application Number:	13681522
Application Number:	61792656
Application Number:	13311300
Application Number:	13832459
Application Number:	13715085
Application Number:	13734682
Application Number:	61785209
Application Number:	29452955
Application Number:	13968875
Application Number:	13968914
Application Number:	13465781
Application Number:	13416146
Application Number:	11445611
Application Number:	11737101
Application Number:	13354684
Application Number:	13748731
Application Number:	12738342
Application Number:	29423346
Application Number:	14084920
Application Number:	29391815
Application Number:	29391818
Application Number:	29391820
Application Number:	29391822
Application Number:	29422280

CORRESPONDENCE DATA

Fax Number: (617)526-9899

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.

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Email: cslattery@proskauer.com

Correspondent Name: CHRISTINE SLATTERY

Address Line 1: PROSKAUER ROSE LLP

PATENT

REEL: 033072 FRAME: 0402

Address Line 2:	ONE INTERNATIONAL PLACE
Address Line 4:	BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER:	51494/023
NAME OF SUBMITTER:	CHRISTINE SLATTERY
SIGNATURE:	/Christine Slattery/
DATE SIGNED:	06/02/2014

Total Attachments: 26

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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement") is made this 19th day of February, 2014, by and among the Grantors listed on the signature pages hereof (collectively, jointly and severally, "Grantors" and each individually "Grantor"), and **MEDLEY CAPITAL CORPORATION**, a Delaware corporation ("Medley"), in its capacity as administrative agent for the Lender Group (in such capacity, together with its successors and assigns in such capacity, "Agent").

W I T N E S S E T H:

WHEREAS, pursuant to that certain Term Loan Agreement dated as of February 18, 2014 (as amended, restated, supplemented, or otherwise modified from time to time, the "Term Loan Agreement") by and among Lighting Science Group Corporation, a Delaware corporation ("Borrower"), the lenders party thereto as "Lenders" (each of such Lenders, together with its successors and permitted assigns, is referred to hereinafter as a "Lender"), and Agent, the Lender Group has agreed to make certain financial accommodations available to Borrower from time to time pursuant to the terms and conditions thereof; and

WHEREAS, the members of Lender Group are willing to make the financial accommodations to Borrower as provided for in the Term Loan Agreement and the other Loan Documents, but only upon the condition, among others, that the Grantors shall have executed and delivered to Agent, for the benefit of the Lender Group, that certain Guaranty and Security Agreement, dated as of February 19, 2014 (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Guaranty and Security Agreement"); and

WHEREAS, pursuant to the Guaranty and Security Agreement, Grantors are required to execute and deliver to Agent, for the benefit of the Lender Group, this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby agrees as follows:

1. DEFINED TERMS. All initially capitalized terms used but not otherwise defined herein have the meanings given to them in the Guaranty and Security Agreement or, if not defined therein, in the Term Loan Agreement, and this Patent Security Agreement shall be subject to the rules of construction set forth in Section 1(b) of the Guaranty and Security Agreement, which rules of construction are incorporated herein by this reference, mutatis mutandis.

2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL. Each Grantor hereby unconditionally grants, collaterally assigns, and pledges to Agent, for the benefit each member of the Lender Group, to secure the Secured Obligations, a continuing security interest (referred to in this Patent Security Agreement as the "Security Interest") in all of such

Grantor's right, title and interest in and to the following, whether now owned or hereafter acquired or arising (collectively, the "Patent Collateral"):

(a) all of its Patents and Patent Intellectual Property Licenses to which it is a party including those referred to on Schedule I;

(b) all divisionals, continuations, continuations-in-part, reissues, reexaminations, or extensions of the foregoing; and

(c) all products and proceeds of the foregoing, including any claim by such Grantor against third parties for past, present or future infringement of any Patent or any Patent exclusively licensed under any Intellectual Property License, including the right to receive damages, or right to receive license fees, royalties, and other compensation under any Patent Intellectual Property License.

3. SECURITY FOR SECURED OBLIGATIONS. This Patent Security Agreement and the Security Interest created hereby secures the payment and performance of the Secured Obligations, whether now existing or arising hereafter. Without limiting the generality of the foregoing, this Patent Security Agreement secures the payment of all amounts which constitute part of the Secured Obligations and would be owed by Grantors, or any of them, to Agent, the other members of the Lender Group, or any of them, whether or not they are unenforceable or not allowable due to the existence of an Insolvency Proceeding involving any Grantor.

4. SECURITY AGREEMENT. The Security Interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interests granted to Agent, for the benefit of the Lender Group, pursuant to the Guaranty and Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of Agent with respect to the Security Interest in the Patent Collateral made and granted hereby are more fully set forth in the Guaranty and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. To the extent there is any inconsistency between this Patent Security Agreement and the Guaranty and Security Agreement, the Guaranty and Security Agreement shall control.

5. AUTHORIZATION TO SUPPLEMENT. If any Grantor shall obtain rights to any new patent application or issued patent or become entitled to the benefit of any patent application or patent for any divisional, continuation, continuation-in-part, reissue, or reexamination of any existing patent or patent application, the provisions of this Patent Security Agreement shall automatically apply thereto. Without limiting Grantors' obligations under this Section, Grantors hereby authorize Agent unilaterally to modify this Patent Security Agreement by amending Schedule I to include any such new patent rights of each Grantor. Notwithstanding the foregoing, no failure to so modify this Patent Security Agreement or amend Schedule I shall in any way affect, invalidate or detract from Agent's continuing security interest in all Collateral, whether or not listed on Schedule I.

6. COUNTERPARTS. This Patent Security Agreement is a Loan Document. This Patent Security Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to

be an original, and all of which, when taken together, shall constitute but one and the same Patent Security Agreement. Delivery of an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission shall be equally as effective as delivery of an original executed counterpart of this Patent Security Agreement. Any party delivering an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission also shall deliver an original executed counterpart of this Patent Security Agreement but the failure to deliver an original executed counterpart shall not affect the validity, enforceability, and binding effect of this Patent Security Agreement.

7. CHOICE OF LAW AND VENUE, JURY TRIAL WAIVER, AND JUDICIAL REFERENCE PROVISION. THIS PATENT SECURITY AGREEMENT SHALL BE GOVERNED BY THE LAWS OF THE STATE OF NEW YORK AND SUBJECT TO THE PROVISIONS REGARDING CHOICE OF LAW AND VENUE, JURY TRIAL WAIVER, AND JUDICIAL REFERENCE SET FORTH IN SECTION 25 OF THE SECURITY AGREEMENT, AND SUCH PROVISIONS ARE INCORPORATED HEREIN BY THIS REFERENCE, MUTATIS MUTANDIS.

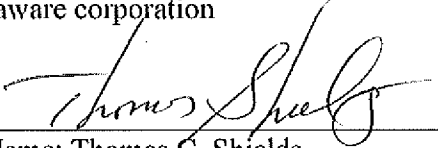
[signature page follows]

IN WITNESS WHEREOF, the parties hereto have caused this Patent Security Agreement to be executed and delivered as of the day and year first above written.

GRANTORS:

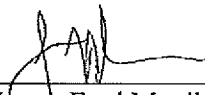
LIGHTING SCIENCE GROUP CORPORATION,
a Delaware corporation

By: _____


Name: Thomas C. Shields

Title: Chief Financial Officer

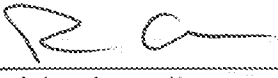
BIOLOGICAL ILLUMINATION, LLC,
a Delaware limited liability company

By: 
Name: Fred Maxik
Title: Manager

AGENT:

MEDLEY CAPITAL CORPORATION,

a Delaware corporation

By: 

Name: Richard T. Allorto

Title: Chief Financial Officer

UNITED STATES ISSUED PATENTS

Title	Patent Number	Issue Date	Owner
Low Profile Light and Accessory Kit for the Same	8672518	3/18/2014	LSG
Configurable environmental condition sensing luminaire, system and associated methods	8674608	3/18/2014	LSG
Luminaire	D700723	3/4/2014	LSG
Off Grid Luminaire	D700735	3/4/2014	LSG
Light fixture adapted to interface with a wall structure	D683,883	6/4/2013	LSG
Directional downlight	D697,650	1/14/2014	LSG
Sustainable Outdoor Lighting System	8491153	7/23/2013	LSG
Sustainable Outdoor Lighting System and Associated Methods	8475002	7/2/2013	LSG
Color Conversion Occlusion and Associated Methods	8465167	6/18/2013	LSG
Roadway Lamp (Design #2)	D684,285	6/17/2013	LSG
Light Reflector	D659895	5/15/2012	LSG
Elongate Light Fixture	D659880	5/15/2012	LSG
Remote Lighting Device and Associated Methods	8439515	5/14/2013	LSG
Lighting Fixture	D658803	5/1/2012	LSG
Configurable Linear Light	D679,860	4/9/2013	LSG
Remote Light Wavelength Conversion Device and Associated Methods	8408725	4/2/2013	LSG
Canopy Light System	D677,824	3/12/2013	LSG
Luminaire with Medial Enclosure and Heat Sink	D677,807	3/12/2013	LSG
Luminaire with Vented Enclosure and Heat Sink	D676,983	3/12/2013	LSG
Wall Mountable Light Fixture	D677,811	3/12/2013	LSG
Luminaire with Vented Enclosure	D676,982	2/26/2013	LSG
Luminaire with Prismatic Enclosure	D676,984	2/26/2013	LSG
Vented Luminaire having Medially Disposed Enclosure	D676,583	2/22/2013	LSG
LED Fixture	D650109	12/06/2011	LSG
MEMS Wavelength Converting Lighting Device and Associated Methods	8384984	2/26/2013	LSG
Luminaire	D689,218	9/3/2013	LSG
LED Lamp for Producing Biologically-Corrected Light	8643276	2/4/2014	Biological
System for Dissipating Heat Energy	8631855	1/21/2014	LSG
LED Luminaire	8646942	2/11/2014	LSG
LIGHT DIRECTING APPARATUS	8628222	1/14/2014	LSG
Remote light wavelength conversion device and associated methods	8,616,715	12/31/2013	LSG

Title	Patent Number	Issue Date	Owner
Sealed electrical device with cooling system and associated methods	8,608,348	12/17/2013	LSG
LED LUMINAIRE	8,608,341	12/17/2013	LSG
Luminaire	D694,435	11/26/2013	LSG
Pendant Luminaire	8,579,471	11/12/2013	LSG
Modular Heat Sink	D691,568	10/12/2013	LSG
High efficacy lighting signal converter and associated methods	8,547,391	10/1/2013	LSG
Dual characteristic color conversion enclosure and associated methods	8,545,034	10/1/2013	LSG
Security Light	D690,613	10/1/2013	LSG
Lamp with a modular heat sink	D689,633	9/10/2013	LSG
Roadway Lamp	D687,998	8/13/2013	LSG
LIGHT FIXTURE AND ASSOCIATED LED BOARD AND MONOLITHIC OPTIC	8,506,118	8/13/2013	LSG
LUMINAIRE	D687,986	8/13/2013	LSG
LED lighting system	8,476,829	7/2/2013	Biological
Luminaire	D684709	6/18/2013	LSG
LUMINAIRE	D684296	6/11/2013	LSG
LED Lamp for Producing Biologically-Corrected Light	8,446,095	5/21/2013	Biological
Luminaire	D682452	5/14/2013	LSG
POLE FOR A STREET LIGHT LUMINAIRE	D681874 ¹	5/7/2013	LSG
ROADWAY LIGHT	D681251	4/30/2013	LSG
LED Fluid Purification System and Method	8,420,022	4/16/2013	Biological
Sustainable Outdoor Lighting System for Use in Environmentally Photo-Sensitive Area	8,401,231	3/19/2013	Biological
Luminaire	D677,808	3/18/2013	LSG
Luminaire with Heat Sink	D676,985	2/26/2013	LSG
SOLID STATE LED BRIDGE RECTIFIER LIGHT ENGINE	8384299	2/26/2013	LSG
LUMINAIRE	D676988	2/26/2013	LSG
Luminaire	D676987	2/26/2013	LSG
Luminaire	D676986	2/26/2013	LSG
Luminaire	D676584	2/19/2013	LSG
LUMINAIRE	D675367	1/29/2013	LSG

¹ U.S. Patent No. D681,874 is jointly owned by Lighting Science Group Corporation and Office of Visual Interaction, Inc.

Title	Patent Number	Issue Date	Owner
LUMINAIRE	D675348	1/29/2013	LSG
LUMINAIRE	D674923	1/22/2013	LSG
LUMINAIRE	D674928	1/22/2013	LSG
LIGHT FIXTURE	D673323 ²	12/25/2012	LSG
Optical Assembly Having Primary Reflector and Secondary Reflector	8333488	12/18/2012	LSG
LUMINAIRE	D672480	12/11/2012	LSG
LED Lighting System	8,324,815	12/4/2012	Biological
LED Lamp for Producing Biologically-Corrected Light	8324808	12/4/2012	Biological
SOLID STATE LED BRIDGE RECTIFIER LIGHT ENGINE	8314565	11/20/2012	LSG
LUMINAIRE	D671244	11/20/2012	LSG
Sustainable Outdoor Lighting System	8308318	11/13/2012	LSG
LUMINAIRE	D670427	11/6/2012	LSG
Luminaire	D669607	10/23/2012	LSG
Luminaire	D667971	9/25/2012	LSG
LED LUMINAIRE	8272762	9/25/2012	LSG
LUMINAIRE	D666750	9/4/2012	LSG
LED Lamp for Producing Biologically-Corrected Light	8,253,336	8/28/2012	Biological
WARM WHITE LIGHTING DEVICE	8231250	7/31/2012	LSG
LIGHTING APPARATUS INCLUDING LEDs AND PROGRAMMABLE CONTROLLER FOR CONTROLLING THE SAME	8228284	7/24/2012	LSG
Light Fixture with Heat Sink	D663885	7/17/2012	LSG
BODY PORTION OF A BULB	D663446	7/10/2012	LSG
LOW PROFILE LIGHT	8201968	6/19/2012	LSG
High Color Rendering Index White Led Light System Using Multit-Wavelength Pump Sources and Mixed Phosphors	8192047	6/5/2012	LSG
PORTION OF A LAMP	D661413	6/5/2012	LSG
LUMINAIRE	D659266	5/8/2012	LSG
LUMINAIRE	D658791	5/1/2012	LSG
LIGHT FIXTURE AND ASSOCIATED LED BOARD AND MONOLITHIC OPTIC	8157413	4/17/2012	LSG
LUMINAIRE	D656660	3/27/2012	LSG

² U.S. Patent No. D673,323 is jointly owned by Lighting Science Group Corporation and Office of Visual Interaction, Inc.

Title	Patent Number	Issue Date	Owner
LED PACKAGE WITH STEPPED APERTURE	8129734	3/6/2012	LSG
BODY PORTION OF A LAMP	D654192	2/14/2012	LSG
Luminaire	D652564	1/17/2012	LSG
Multi-Cavity LED Array RGB Collimation Optic	8087800	1/3/2012	LSG
LIGHT SOURCE WITH OPTIMIZED ELECTRICAL, OPTICAL, AND ECONOMICAL PERFORMANCE	8087798	1/3/2012	LSG
Display backlight with improved light coupling and mixing	8079743	12/20/2011	LSG
POLE FOR A STREET LIGHT LUMINAIRE	D650519 ³	12/13/2011	LSG
LUMINAIRE AND METHOD OF OPERATION	8038319	10/18/2011	LSG
Luminaire	D646013	9/27/2011	LSG
Electronic Light Generating Element with Power Circuit	8004203	8/23/2011	LSG
Light emitting diode package assembly that emulates the light pattern produced by an incandescent filament bulb	7964883	6/21/2011	LSG
Illumination Apparatus for Conducting and Dissipating Heat from a Light Source	7922356	4/12/2011	LSG
HEAT SINK FOR A LUMINAIRE	D635105	3/29/2011	LSG
Light fixture	D632420	2/8/2011	LSG
System and method for providing multi-functional lighting using high-efficiency lighting elements in an environment	7824065	11/2/2010	LSG
Method and apparatus for cooling a lightbulb	7824075	11/2/2010	LSG
LIGHT EMITTING DIODES WITH IMPROVED LIGHT COLLIMATION	7777235	8/17/2010	LSG
Multi-Primary Led Collimation Optic Assemblies	7758208	7/20/2010	LSG
Sustainably Constructed Heat Dissipating Integrated Lighting Surface	7744252	6/29/2010	LSG
Illumination Device for Providing Directionally Guided Light	7728341	6/1/2010	LSG
LIGHT EFFICIENT LED ASSEMBLY INCLUDING A SHAPED REFLECTIVE CAVITY AND METHOD FOR MAKING SAME	7719021	5/18/2010	LSG
Lighting Apparatus Including Flexible Power Supply	7708452	5/4/2010	LSG
Thermally-Managed Led-Based Recessed Down Lights	7677770	3/16/2010	LSG
Pendant Light	D608478	1/19/2010	LSG
THERMAL AND OPTICAL CONTROL IN A LIGHT FIXTURE	7637643	12/29/2009	LSG
METHOD OF MAKING OPTICAL LIGHT ENGINES WITH ELEVATED LEDS AND RESULTING PRODUCT	7633093	12/15/2009	LSG

³ U.S. Patent No. D650,519 is jointly owned by Lighting Science Group Corporation and Office of Visual Interaction, Inc.

Title	Patent Number	Issue Date	Owner
Method and Apparatus for Operating a Light Emitting Diode With a Dimmer	7633779	12/15/2009	LSG
Method and apparatus for driving a light emitting diode	7619372	11/17/2009	LSG
Pendant Light	D600850	9/22/2009	LSG
Pendant Light	D595893	7/7/2009	LSG
Pendant Light Module	D593247	5/26/2009	LSG
LED LIGHT BULB	D592321	5/12/2009	LSG
Light	D592349	5/12/2009	LSG
SURFACE MOUNTABLE LIGHT EMITTING DIODE ASSEMBLES PACKAGED FOR HIGH TEMPERATURE OPERATION	7528421	5/5/2009	LSG
Light Fixture	D591440	4/28/2009	LSG
Electronic light generating element light bulb	7521875	4/21/2009	LSG
Heat Sink For a Light Fixture ("Demon 2" Extrusion Fixture design)	D590099	4/7/2009	LSG
Light (Wash Light - Wall Node Light II design)	D585153	1/20/2009	LSG
Light (Wash Light - Wall Node Light I design)	D584846	1/13/2009	LSG
Lighting Fixture	D584837	1/13/2009	LSG
Light Fixture ("Demon 1" Extrusion Fixture design)	D582602	12/9/2008	LSG
Low-Bay Light Fixture	D577454	9/23/2008	LSG
LIGHTING FIXTURE	D572385	7/1/2008	LSG
LED LIGHT BULB	D570504	6/3/2008	LSG
LED LIGHT BULB	D570505	6/3/2008	LSG
LIGHT BULB HAVING SURFACES FOR REFLECTING LIGHT PRODUCED BY ELECTRONIC LIGHT GENERATING SOURCES	7367692	5/6/2008	LSG
LOW TEMPERATURE CO-FIRED CERAMIC-METAL CIRCULATORS AND ISOLATORS	7336140	2/26/2008	LSG
LED LIGHT BULB	D560286	1/22/2008	LSG
LIGHT BULB HAVING WIDE ANGLE LIGHT DISPERSION USING CRYSTALLINE MATERIAL	7319293	1/15/2008	LSG
LED LIGHT SOURCES FOR IMAGE PROJECTION SYSTEMS	7300182	11/27/2007	LSG
LED LIGHT BULB	D553265	10/16/2007	LSG
LED Light Bulb	D553266	10/16/2007	LSG
LOW-BAY LIGHT FIXTURE	D551379	9/18/2007	LSG
Led Array Package with Internal Feedback and Control	7252408	8/7/2007	LSG
Electronic light generating element lightbulb	7215086	5/8/2007	LSG
LED LIGHT BULB	D538951	3/20/2007	LSG

Title	Patent Number	Issue Date	Owner
LED Light Bulb	D538950	3/20/2007	LSG
LED Light Bulb	D538952	3/20/2007	LSG
METHOD AND STRUCTURES FOR ENHANCED TEMPERATURE CONTROL OF HIGH POWER COMPONENTS ON MULTILAYER LTCC AND LTCC-M BOARDS	7183640	2/27/2007	LSG
LIGHT EMITTING DIODES PACKAGED FOR HIGH TEMPERATURE OPERATION	7176502	2/13/2007	LSG
ILLUMINATION DEVICES COMPRISING WHITE LIGHT EMITTING DIODES AND DIODE ARRAYS AND METHOD AND APPARATUS FOR MAKING THEM	7157745	1/2/2007	LSG
LED Light Bulb	D532532	11/21/2006	LSG
LED Lightbulb	D531740	11/7/2006	LSG
LED LIGHT BULB	D528673	9/19/2006	LSG
Light emitting diodes packaged for high temperature operation	7098483	8/29/2006	LSG
Light emitting diodes packaged for high temperature operation	7095053	8/22/2006	LSG
LED LIGHT BULB	D527119	8/22/2006	LSG
Lighting element using electronically activated light emitting elements and method of making same	7086756	8/8/2006	LSG
FLASHLIGHT	D525379	7/18/2006	LSG
FLOODLIGHT	D525374	7/18/2006	LSG
Monolithic Disc Delay Line	7026891	4/11/2006	LSG
Temperature Compensating Device with Integral Sheet Thermistors	6759940	7/6/2004	LSG
METHOD OF MAKING CERAMIC MULTILAYER CIRCUIT BOARDS MOUNTED IN A PATTERNED METAL SUPPORT SUBSTRATE	6739047	5/25/2004	LSG
TEMPERATURE COMPENSATING DEVICE WITH EMBEDDED COLUMNAR THERMISTORS	6720859	4/13/2004	LSG
LOW TEMPERATURE CO-FIRED CERAMIC-METAL PACKAGING TECHNOLOGY	6713862	3/30/2004	LSG
METHOD FOR THE REDUCTION OF LATERAL SHRINKAGE IN MULTILAYER CIRCUIT BOARDS ON A SUBSTRATE	6709749	3/23/2004	LSG
TUNABLE BROADSIDE COUPLED TRANSMISSION LINES FOR ELECTROMAGNETIC WAVES	6670856	12/30/2003	LSG
CERAMIC MULTILAYER CIRCUIT BOARDS MOUNTED ON A PATTERNED METAL SUPPORT SUBSTRATE	6518502	2/11/2003	LSG
METHOD OF FORMING METAL CONTACT PADS ON A METAL SUPPORT	6471805	10/29/2002	LSG

Title	Patent Number	Issue Date	Owner
SUBSTRATE			
INTEGRATED HEAT SINKING PACKAGES USING LOW TEMPERATURE COFIRE CERAMIC METAL CIRCUIT BOARD TECHNOLOGY	6455930	9/24/2002	LSG
Multilayer Ceramic Circuit Boards with Embedded Resistors	6399230	6/4/2002	LSG
METHOD FOR MAKING AN EMBOSSED PLASMA DISPLAY BACK PANEL	6361390	3/26/2002	LSG
HIGH DIELECTRIC CONSTANT BURIED CAPACITORS WITH EXTENDED OPERATING TEMPERATURE RANGES	6300267	10/9/2001	LSG
HIGH DIELECTRIC CONSTANT EMBEDDED CAPACITORS	6191934 ⁴	2/20/2001	LSG
LARGE VALUE BURIED INDUCTORS IN LOW TEMPERATURE CO-FIRED CERAMIC CIRCUIT BOARDS	6160469 ⁵	12/12/2000	LSG
Embossed Plasma Display Back Panel	6140759	10/31/2000	LSG
Multilayer Ceramic Circuit Boards Including Embedded Components	6055151 ⁶	4/25/2000	LSG
Low Dielectric Loss Glasses	6017642	1/25/2000	LSG
MINIATURE POWER SUPPLY	6011330	1/4/2000	LSG
Low Dielectric Loss Glass Ceramic Compositions	5958807	9/28/1999	LSG
Multilayer Ceramic Circuit Boards Including Embedded Capacitors	5953203	9/14/1999	LSG
INTEGRATED ELECTRONIC CIRCUIT	5929510 ⁷	7/27/1999	LSG
METHOD FOR THE REDUCTION OF LATERAL SHRINKAGE IN MULTILAYER CIRCUIT BOARDS ON A SUBSTRATE	5876536	3/2/1999	LSG
THICK CERAMIC ON METAL MULTILAYER CIRCUIT BOARD	5866240 ⁸	2/2/1999	LSG
ELECTRONIC CIRCUIT CHIP PACKAGE	5847935	12/8/1998	LSG
ELECTRICAL FEEDTHROUGHS FOR CERAMIC CIRCUIT BOARD SUPPORT SUBSTRATES	5681444	10/28/1997	LSG

⁴ U.S. Patent No. 6,191,934 is jointly owned by Lighting Science Group Corporation and Daewoo Electronics Co., Ltd.

⁵ U.S. Patent No. 6,160,469 is jointly owned by Lighting Science Group Corporation and Daewoo Electronics Co., Ltd.

⁶ U.S. Patent No. 6,055,151 is jointly owned by Lighting Science Group Corporation and Sharp Kabushiki Kaisha.

⁷ U.S. Patent No. 5,929,510 is jointly owned by Lighting Science Group Corporation and Sharp Kabushiki Kaisha.

⁸ U.S. Patent No. 5,866,240 is jointly owned by Lighting Science Group Corporation and Sharp Corporation.

Title	Patent Number	Issue Date	Owner
PROCESS FOR MAKING ELECTRICAL FEEDTHROUGHS FOR CERAMIC CIRCUIT BOARD SUPPORT SUBSTRATES	5653834	8/5/1997	LSG
ELECTRICAL FEEDTHROUGHS FOR CERAMIC CIRCUIT BOARD SUPPORT SUBSTRATES	5565262	10/15/1996	LSG
CONDUCTIVE VIA FILL INKS FOR CERAMIC MULTILAYER CIRCUIT BOARDS ON SUPPORT SUBSTRATES	5514451	5/7/1996	LSG

UNITED STATES PATENT APPLICATIONS

Title	Serial Number	Filing Date	Owner
WIRELESS PAIRING SYSTEM AND ASSOCIATED METHODS	13/463,020	5/3/2012	LSG
INTELLIGENT SECURITY LIGHT AND ASSOCIATED METHODS	13/464,292	5/4/2012	LSG
OCCUPANCY SENSOR AND ASSOCIATED METHODS	13/464,345	5/4/2012	LSG
WAVELENGTH CONVERTING LIGHTING DEVICE AND ASSOCIATED METHODS	13/633,914	10/3/2012	LSG
PROGRAMMABLE LUMINAIRE SYSTEM	13/751,180	1/28/2013	LSG
ADAPTIVE ANTI-GLARE LIGHT SYSTEM AND ASSOCIATED METHODS	13/792,354	3/11/2013	LSG
System for Inductively Powering an Electrical Device and Associated Methods	13/608,999	9/10/2012	LSG
Lamp Having a Modular Heat Sink (BR)	29/433,714	10/4/2012	LSG
Lamp Having a Modular Heat Sink (G-25)	29/437,877	11/21/2012	LSG
Luminaire with Modular Cooling System and Associated Methods	13/832,900	3/15/2013	LSG
Lighting Device with Integrally Molded Base and Associated Methods	13/832,878	3/15/2013	LSG
Lighting Device with Integrally Molded Cooling System and Associated Methods	61/715,075	10/17/2012	LSG
Luminaire having Vented Optical Chamber	61/723,491	11/7/2012	LSG
Lamp having Vented Optical Chamber and Associated Methods	29/435,363	10/23/2012	LSG
Low Profile Light Having Concave Reflector and Associated Methods	13/676,539	11/14/2012	LSG
Modular Segmented Electronics Assembly	61/733,044	12/4/2012	LSG
System for Generating Light Having Constant Color Temperature and Associated Methods	13/737,581	1/9/2013	LSG
System for Generating Non-Homogenous Light and Associated Methods	13/709,942	12/10/2012	LSG
Lamp having Body with Integrally Molded Heat Sink	29/433,354	9/28/2012	LSG
Adaptive Light System and Associated Methods	13/775,936	2/25/2013	LSG
Constant Current Pulse-Width Modulation Lighting System and Associated Methods	13/722,581	12/20/2012	LSG
Low Profile Light Having Elongated Reflector and Associated Methods	13/800,253	3/13/2013	LSG
High Bay Luminaire	61/772,755	3/5/2013	LSG
High Bay Lighting Fixture	29/443,158	1/14/2013	LSG
Occupancy Sensor and Associated Methods	13/785,652	3/5/2013	LSG
RETROFIT LIGHT-EMITTING DIODE DRIVER	61/858,414	7/25/2013	LSG
Magnetically-Mountable Lighting Device and Associated Systems and Methods	13/832,969	3/15/2013	LSG
Concave Low Profile Luminaire with Magnetic Lighting Devices and Associated Systems and Methods	13/842,868	3/15/2013	LSG
Trough Luminaire with Magnetic Lighting Devices and Associated Systems and	13/842,998	3/15/2013	LSG

Title	Serial Number	Filing Date	Owner
Methods			
Lighting System for Accenting Regions of a Layer and Associated Methods	13/753,890	1/30/2013	LSG
Luminaire Having a Vented Enclosure	13/875,855	5/2/2013	LSG
Self-Calibrating Multi-Directional Security Luminaire and Associated Methods	13/842,875	3/15/2013	LSG
Configurable Linear Light Assembly and Associated Methods	13/874,748	5/1/2013	LSG
Tunable Light System and Associated Methods	13/737,606	1/9/2013	LSG
Canopy Light System and Associated Methods	13/887,799	5/6/2013	LSG
Motion Detection System and Associated Methods Having at Least One LED of a Second Set of LEDs to Vary its Voltage	13/739,665	1/11/2013	LSG
Tunable Lighting Apparatus	13/739,893	1/11/2013	LSG
Luminaire with Prismatic Optic	13/739,054	1/11/2013	LSG
Wall Mountable Luminaire and Associated Systems and Methods	13/888,564	5/7/2013	LSG
Light Fixture for a Canopy Light System	29/438,757	12/3/2012	LSG
Lighting System with Reduced Physiological Compression and Associated Methods	13/830,390	3/14/2013	LSG
Low-Bay Luminaire and Assoc.Methods	13/837,643	3/15/2013	LSG
LOW BAY LUMINAIRE	29/458,558	6/20/2013	LSG
Serially-Connected Light Emitting Diodes, Methods of Forming Same, and Luminaires Containing Same	13/739,286	1/24/2013	LSG
Low-Angle Thoroughfare Surface Lighting Device	13/839,131	3/15/2013	LSG
Low-Angle Thoroughfare Surface Luminaire	29/452,780	4/22/2013	LSG
Rotatable Lighting Device	13/792,986	3/15/2013	LSG
Rotatable Lighting Fixture	13/765,256	2/12/2013	LSG
Device for Simulating Combustion Flicker	61/793,903	3/15/2013	LSG
LOW PROFILE LUMINAIRE WITH LIGHT GUIDE AND ASSOCIATED SYSTEMS AND METHODS	14/014,512	8/30/2013	LSG
Thermally Conductive Sheet and Associated Methods	61/791,487	3/15/2013	LSG
Edge Lit Lighting Device	61/777,585	3/12/2013	LSG
System for Directional Control of Light and Associated Methods	14/076,621	11/11/2013	LSG
Luminaire with Prismatic Optic	13/829,832	3/14/2013	LSG
Lamp Vending Machine	61/815,018	4/23/2013	LSG
Electrostatic Removal	61/787,174	3/15/2013	LSG
System for Generating Non-Homogenous Biologically-Adjusted Light and Associated Methods	13/803,825	3/14/2013	Biological
Low Bay Luminaire	29/449,863	3/15/2013	LSG

Title	Serial Number	Filing Date	Owner
METHOD OF ASSEMBLING A LIGHTING DEVICE WITH FLEXIBLE CIRCUITS HAVING LIGHT-EMITTING DIODES	13/969,090	8/16/2013	LSG
ROTATABLE LIGHTING DEVICE	14/087,338	11/22/2013	LSG
LUMINAIRE TO EMIT LIGHT RESPONSIVE TO AN EMERGENCY ALERT AND ASSOCIATED METHODS	13/969,103	8/16/2013	LSG
Color Conversion Occlusion and Associated Methods	13/890,684	5/9/2013	LSG
Security Light	29/452,910	4/23/2013	LSG
ROADWAY LAMP	29/462,045	7/30/2013	LSG
Compact Lamp	29/452,779	4/22/2013	LSG
Low-Angle Thoroughfare Surface Lighting Device	13/868,880	4/23/2013	LSG
Street Lighting Device for Communicating with Drivers and Associated Methods	61/823,013	5/14/2013	LSG
LUMINAIRE WITH INTEGRALLY MOLDED COOLING SYSTEM AND ASSOCIATED METHODS	14/055,346	10/16/2013	LSG
Luminaire Having Vented Optical Chamber And Associated Methods	14/074,173	11/7/2013	LSG
EDGE LIT LIGHTING DEVICE	14/024,280	9/11/2013	LSG
EDGE LIT LIGHTING DEVICE	14/023,675	9/11/2013	LSG
HIGH EFFICACY LIGHTING SIGNAL CONVERTER AND ASSOCIATED METHODS	13/955,891	7/31/2013	LSG
ELONGATED LED LUMINAIRE AND ASSOCIATED METHODS	14/044,939	10/3/2013	LSG
SEALED ELECTRICAL DEVICE WITH COOLING SYSTEM AND ASSOCIATED METHODS	14/084,118	11/19/2013	LSG
Illumination and Grow Light System and Associated Methods	13/681,522	11/20/2012	Biological
Refrigeration System	61/792,656	3/15/2013	Biological
Tunable LED Lamp for Producing Biologically-Adjusted Light	13/311,300	12/5/2011	Biological
System for Treating Light Treatable Conditions and Associated Methods	13/832,459	3/15/2013	Biological
Sustainable Outdoor Lighting System for Use in Environmentally Photo-Sensitive Area	13/715,085	12/14/2012	Biological
LED Fluid Purification System and Method	13/734,682	1/4/2013	Biological
System and Method for Controlling Glucose Production	61/785,209	3/14/2013	Biological
Linear Lighting Device	29/452,955	4/23/2013	Biological
TUNABLE LED LAMP FOR PRODUCING BIOLOGICALLY-ADJUSTED LIGHT	13/968,875	8/16/2013	Biological
TUNABLE LED LAMP FOR PRODUCING BIOLOGICALLY-ADJUSTED LIGHT	13/968,914	8/16/2013	Biological

Title	Serial Number	Filing Date	Owner
DYNAMIC WAVELENGTH ADAPTING DEVICE TO AFFECT PHYSIOLOGICAL RESPONSE AND ASSOCIATED METHODS	13/465,781	5/7/2012	Biological
LED LIGHT SOURCES FOR IMAGE PROJECTION SYSTEMS	13/416146	3/9/2012	LSG
MULTICOLOR LED ASSEMBLY WITH IMPROVED COLOR MIXING	11/445611	6/2/2006	LSG
OPTICAL DEVICES FOR CONTROLLED COLOR MIXING	11/737101	4/18/2007	LSG
LED PACKAGE WITH STEPPED APERATURE	13/354684	1/20/2012	LSG
SOLID STATE LED BRIDGE RECTIFIER LIGHT ENGINE	13/748731	1/24/2013	LSG
High Efficiency Light Source with Integrated Ballast	12/738342	10/27/2008	LSG
LUMINAIRE	29/423346	5/31/2012	LSG
LIGHT DIRECTING APPARATUS	14/084,920	11/20/2013	LSG
LUMINAIRE	29/391815	5/13/2011	LSG
LUMINAIRE	29/391818	5/13/2011	LSG
LUMINAIRE	29/391820	5/13/2011	LSG
LUMINAIRE	29/391822	5/13/2011	LSG
LUMINAIRE	29/422280	5/18/2012	LSG

FOREIGN ISSUED PATENTS

Title	Country	Patent Number	Issue Date	Owner
Electronic light generating element lightbulb	DE	2387289	5/29/2013	LSG
LUMINAIRE AND METHOD OF OPERATION	DE	602009006346.4	4/18/2012	LSG
THERMAL AND OPTICAL CONTROL IN A LIGHT FIXTURE	DE	602008016007.6	5/30/2012	LSG
ROADWAY LIGHT	EP	002078287-0003	7/24/2012	LSG
Electronic light generating element lightbulb	EP	2387289	5/29/2013	LSG
Light Dispersion Control Device For Mr-16 Replacement	EP	2128660	4/18/2012	LSG
THERMAL AND OPTICAL CONTROL IN A LIGHT FIXTURE	EP	2065637	5/30/2012	LSG
Electronic light generating element lightbulb	GB	2387289	5/29/2013	LSG
LUMINAIRE AND METHOD OF OPERATION	GB	2128660	4/18/2012	LSG
THERMAL AND OPTICAL CONTROL IN A LIGHT FIXTURE	GB	2065637	5/30/2012	LSG
Light emitting diodes packaged for high temperature operation	JP	4912876	1/27/2012	LSG
Multilayer Ceramic Printed Circuit Boards with Embedded Passive Components	JP	3944791	4/20/2007	LSG
LED LIGHT BULB	JP	1340782	8/29/2008	LSG
Light emitting diodes packaged for high temperature operation	KR	10-1095291	12/12/2011	LSG
ILLUMINATION DEVICES COMPRISING WHITE LIGHT EMITTING DIODES AND DIODE ARRAYS AND METHOD AND APPARATUS FOR MAKING THEM	KR	10-1203672	11/15/2012	LSG
Multilayer Ceramic Printed Circuit Boards with Embedded Passive Components	KR	516043	9/13/2005	LSG
Multilayer Ceramic Printed Circuit Boards with Embedded Passive Components	KR	546471	1/19/2006	LSG
MICROWAVE INTEGRATED CIRCUIT	KR	677005	1/25/2007	LSG
MULTILAYER CERAMIC ON METAL CIRCUIT BOARD WITH EMBEDDED COMPONENTS	MX	251288	11/8/2007	LSG
LUMINAIRE	MX	37570	6/13/2013	LSG
Electronic light generating element lightbulb	NL	2387289	5/29/2013	LSG
THERMAL AND OPTICAL CONTROL IN A LIGHT FIXTURE	NL	2065637	5/30/2012	LSG
LUMINAIRE AND METHOD OF OPERATION	NL	2128660	4/18/2012	LSG
Luminaire	AU	329199	1/8/2010	LSG
LUMINAIRE	AU	336916	11/3/2010	LSG
LUMINAIRE	AU	334503	11/1/2010	LSG

PATENT

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Title	Country	Patent Number	Issue Date	Owner
LUMINAIRE	AU	336917	11/3/2010	LSG
LUMINAIRE	AU	336931	11/3/2010	LSG
LUMINAIRE	AU	336918	11/3/2010	LSG
LUMINAIRE	AU	336932	11/3/2010	LSG
LUMINAIRE	AU	336930	11/3/2010	LSG
LUMINAIRE	AU	344951	10/17/2012	LSG
LUMINAIRE	AU	338767	10/5/2011	LSG
LUMINAIRE	AU	338766	10/5/2011	LSG
LUMINAIRE	AU	338765	10/5/2011	LSG
LUMINAIRE	AU	338764	10/5/2011	LSG
LUMINAIRE	AU	338763	10/5/2011	LSG
LUMINAIRE	AU	338762	10/5/2011	LSG
LUMINAIRE	AU	338884	10/12/2011	LSG
LUMINAIRE	AU	338883	10/12/2011	LSG
LUMINAIRE	AU	343955	8/20/2012	LSG
Luminaire	AU	345330	11/2/2012	LSG
Luminaire	AU	345332	11/2/2012	LSG
Luminaire	AU	345333	11/2/2012	LSG
Luminaire	AU	345334	11/2/2012	LSG
ROADWAY LIGHT	AU	344529	7/26/2012	LSG
Luminaire	AU	345331	11/2/2012	LSG
HEAT SINK FOR A LUMINAIRE	BX	38182-01/06	3/12/2010	LSG
LUMINAIRE	CA	137964	10/12/2011	LSG
LUMINAIRE	CA	140118	10/12/2011	LSG
LUMINAIRE	CA	140115	10/12/2011	LSG
LUMINAIRE	CA	142210	8/7/2012	LSG
LUMINAIRE	CA	146214	8/7/2012	LSG
LUMINAIRE	CA	142954	1/3/2013	LSG
LUMINAIRE	CA	142956	4/12/2013	LSG
LUMINAIRE	CA	142957	4/23/2013	LSG
LUMINAIRE	CA	142955	1/3/2013	LSG
LED LIGHT BULB	CN	200730286449.X	8/26/2009	LSG
LED LIGHT BULB	CN	200630122845.4	11/28/2007	LSG
LED LIGHT BULB	CN	200730154648.5	12/3/2008	LSG

Title	Country	Patent Number	Issue Date	Owner
LIGHTING FIXTURE	CN	200930184257.7	6/9/2010	LSG
LUMINAIRE	CN	ZL201130324241.9	10/10/2012	LSG
LUMINAIRE	CN	ZL201130341076.8	10/10/2012	LSG
LUMINAIRE	CN	ZL201130324266.9	9/26/2012	LSG
LUMINAIRE	CN	ZL201130324244.2	9/26/2012	LSG
LUMINAIRE	CN	ZL201230376625.X	5/8/2013	LSG
LED LIGHT BULB	EM	000847637-0001	3/11/2008	LSG
LED LIGHT BULB	EM	000579644-0001	11/7/2006	LSG
LIGHTS	EM	000079967-0001	9/26/2003	LSG
LIGHTS	EM	000079967-0002	9/26/2003	LSG
BOTTLE LIGHTS	EM	000079967-0003	9/26/2003	LSG
WALL LIGHTS	EM	000079967-0004	11/26/2003	LSG
LIGHTS	EM	000079967-0005	9/26/2003	LSG
LIGHTS	EM	000079967-0006	9/26/2003	LSG
SKIRTING BOARD LIGHTS	EM	000079967-0007	9/26/2003	LSG
Parquet Lights	EM	000079967-0008	9/26/2003	LSG
PANEL LIGHTING	EM	000079967-0009	9/26/2003	LSG
DISC LIGHTS	EM	000079967-0010	9/26/2003	LSG
DISC LIGHTS	EM	000079967-0011	9/26/2003	LSG
CARPET LIGHTING	EM	000079967-0012	9/26/2003	LSG
LIGHTS	EM	000079967-0013	9/26/2003	LSG
LIGHTS	EM	000079967-0014	9/26/2003	LSG
LIGHTS	EM	000079967-0015	9/26/2003	LSG
LIGHTS	EM	000079967-0016	9/26/2003	LSG
LIGHTS	EM	000079967-0017	9/26/2003	LSG
LIGHTS	EM	000079967-0018	9/26/2003	LSG
LIGHTS	EM	000079967-0019	9/26/2003	LSG
WALL LIGHTS	EM	000079967-0020	9/26/2003	LSG
BRACKET LAMPS	EM	000204599-0001	7/21/2004	LSG
BRACKET LAMPS	EM	000204599-0002	7/21/2004	LSG
BRACKET LAMPS	EM	000204599-0003	7/21/2004	LSG
BRACKET LAMPS	EM	000204599-0004	7/21/2004	LSG
WALL LIGHTS	EM	000204599-0005	7/21/2004	LSG
BRACKET LAMPS	EM	000204599-0006	7/21/2004	LSG

Title	Country	Patent Number	Issue Date	Owner
LIGHTS	EM	000204599-0007	7/21/2004	LSG
BRACKET LAMPS	EM	000204599-0008	7/21/2004	LSG
BRACKET LAMPS	EM	000204599-0009	7/21/2004	LSG
BRACKET LAMPS	EM	000204599-0010	7/21/2004	LSG
WALL LIGHTS	EM	000204599-0011	7/21/2004	LSG
LIGHTS	EM	000339767-0041	5/10/2005	LSG
Luminaire	EM	001628488-0001	10/27/2009	LSG
Luminaire	EM	001628488-0002	10/27/2009	LSG
Luminaire	EM	001628488-0003	10/27/2009	LSG
Luminaire	EM	001656497-0001	1/14/2010	LSG
Luminaire	EM	001656497-0002	1/14/2010	LSG
Luminaire	EM	001656497-0003	1/14/2010	LSG
Luminaire	EM	001656497-0004	1/14/2010	LSG
LUMINAIRE	EM	001776907-0001	11/4/2010	LSG
LUMINAIRE	EM	1776907-0010	11/4/2010	LSG
LUMINAIRE	EM	1776907-0002	11/4/2010	LSG
LUMINAIRE	EM	1776907-0003	11/4/2010	LSG
LUMINAIRE	EM	1776907-0004	11/4/2010	LSG
LUMINAIRE	EM	1776907-0005	11/4/2010	LSG
LUMINAIRE	EM	1776907-0006	11/4/2010	LSG
LUMINAIRE	EM	1776907-0007	11/4/2010	LSG
LUMINAIRE	EM	1776907-0008	11/4/2010	LSG
LUMINAIRE	EM	1776907-0009	11/4/2010	LSG
LUMINAIRE	EM	002107326-0001	9/28/2012	LSG
LUMINAIRE	EM	001778101-0001	11/8/2010	LSG
LUMINAIRE	EM	1778101-0002	11/8/2010	LSG
LUMINAIRE	EM	1778101-0003	11/8/2010	LSG
LUMINAIRE	EM	1778101-0004	11/8/2010	LSG
LUMINAIRE	EM	1778101-0005	11/8/2010	LSG
LUMINAIRE	EM	1778101-0006	11/8/2010	LSG
LUMINAIRE	EM	1778101-0007	11/8/2010	LSG
LUMINAIRE	EM	1778101-0008	11/8/2010	LSG
LUMINAIRE	EM	1778101-0009	11/8/2010	LSG
LUMINAIRE	EM	1912981-0001	9/6/2011	LSG

Title	Country	Patent Number	Issue Date	Owner
LUMINAIRE	EM	1912981-0002	9/6/2011	LSG
LUMINAIRE	EM	1912981-0003	9/6/2011	LSG
LUMINAIRE	EM	1912981-0004	9/6/2011	LSG
LUMINAIRE	EM	1912981-0005	9/6/2011	LSG
LUMINAIRE	EM	1912981-0006	9/6/2011	LSG
LUMINAIRE	EM	1912981-0007	9/6/2011	LSG
LUMINAIRE	EM	1912981-0008	9/6/2011	LSG
LUMINAIRE	EM	002067496-0001	7/3/2012	LSG
LUMINAIRE	EM	002067496-0001	7/3/2012	LSG
LUMINAIRE	EM	002067496-0003	7/3/2012	LSG
LUMINAIRE	EM	002136960-0001	11/16/2012	LSG
LUMINAIRE	EM	002136960-0003	11/16/2012	LSG
Luminaire	EM	002077875-0001	7/23/2012	LSG
Luminaire	EM	002077875-0002	7/23/2012	LSG
Luminaire	EM	002077875-0003	7/23/2012	LSG
Luminaire	EM	002077875-0004	7/23/2012	LSG
Luminaire	EM	002077875-0005	7/23/2012	LSG
ROADWAY LIGHT	EM	002078287-0001	7/24/2012	LSG
LUMINAIRE	EM	002082974-0001	8/2/2012	LSG
LUMINAIRE	EM	002082974-0002	8/2/2012	LSG
LUMINAIRE	EM	002082974-0003	8/2/2012	LSG
LUMINAIRE	EM	002136960-0002	11/16/2012	LSG
ROADWAY LIGHT	EP	002078287-0002	7/24/2012	LSG
LUMINAIRE	IN	239236	6/11/2012	LSG
LUMINAIRE	IN	239237	3/7/2012	LSG
LUMINAIRE	IN	239238		LSG
LUMINAIRE	IN	239239	3/7/2012	LSG
LUMINAIRE	IN	247051	1/17/2013	LSG

FOREIGN PATENT APPLICATIONS

Title	Country	Serial Number	Filing Date	Owner
LED Fluid Purification System and Method	PCT	PCT/US11/63168	12/2/2011	Biological
Sustainable Outdoor Lighting System for Use in Environmentally Photo-Sensitive Area	PCT	PCT/US11/56781	10/18/2011	Biological
Sustainable Outdoor Lighting System for Use in Environmentally Photo-Sensitive Area	TW	10014812	11/9/2011	Biological
LED Lighting System	PCT	PCT/US12/21121	1/12/2012	Biological
LED Lamp for Producing Biologically-Corrected Light	PCT	PCT/US11/43884	7/13/2011	Biological
LED Lamp for Producing Biologically-Corrected Light	TW	100125951		Biological
Tunable Led Lamp for Producing Biologically-Adjusted Light	PCT	PCT/US12/67916	12/5/2012	Biological
Illumination and Grow Light System	PCT	PCT/US12/67579	12/3/2012	Biological
LED Lamp for Producing Biologically-Corrected Light	EP	EP11810175.7	1/18/2013	Biological
LED Lamp for Producing Biologically-Corrected Light	IL	224378	1/23/2013	Biological
LED Lamp for Producing Biologically-Corrected Light	JP	100114775	1/16/2013	Biological
LED Lamp for Producing Biologically-Corrected Light	CN	201180036133.9	1/23/2013	Biological
Sustainable Outdoor Lighting System for Use in Environmentally Photo-Sensitive Area	EP	EP11839862.7	4/23/2013	Biological
Apparatus for fixing electric conductor connectors particularly in the low voltage range whereby the connectors are held pressed between two adhesive plates	DE	202005000767U	1/18/2005	LSG
ILLUMINATION DEVICES COMPRISING WHITE LIGHT EMITTING DIODES AND DIODE ARRAYS AND METHOD AND APPARATUS FOR MAKING THEM	EP	05769328.5	7/1/2005	LSG
Multicolor LED assembly with controlled color mixing	EP	07760864.4	4/18/2007	LSG
Thermally-Managed Led-Based Recessed Down Lights	EP	08705798.0	1/9/2008	LSG
Pendant Light Utility	EP	09165821.1	7/17/2009	LSG
Seven-Cavity Led Array RGB Collimation Optic	EP	08835018.6	10/1/2008	LSG
Higg Color Rendering Index White Led Light System Using Multit-Wavelength Pump Sources and Mixed Phosphors	EP	08729960.8	2/15/2008	LSG
LIGHT FIXTURE USEFUL FOR STREET LIGHTING, AND ASSOCIATED LED BOARD AND MONOLITHIC OPTIC	EP	10151159.0	1/20/2010	LSG
MULTICOLOR LED ASSEMBLY WITH IMPROVED COLOR MIXING	EP	07797565.4	5/18/2007	LSG
LIGHT EMITTING DIODES WITH IMPROVED LIGHT COLLIMATION	EP	07716946.4	1/24/2007	LSG

Title	Country	Serial Number	Filing Date	Owner
Versatile, low cost, high power light emitting diode array package	EP	06785622.9	6/27/2006	LSG
Electronic light generating element light bulb	EP	05737429.0	4/20/2005	LSG
Method and apparatus for packaging circuitry within a lightbulb	EP	07797677.7	5/23/2007	LSG
Sustainable Endothermic Heat Stripping Method and Apparatus	EP	09167601.5	8/11/2009	LSG
SUSTAINABLEY CONSTRUCTED HEAT DISSIPATING INTEGRATED LIGHTING SURFACE	EP	09167594.2	8/11/2009	LSG
Led Array Package with Internal Feedback and Control	EP	05770935.4	7/13/2005	LSG
Led Array Package with Internal Feedback and Control	EP	11002434.6	7/13/2005	LSG
High Efficiency Ligth Source with Integrated Ballast	EP	08840839.8	10/27/2008	LSG
Multi-Primary Led Collimation Optic Assemblies	EP	07869896.6	12/26/2007	LSG
SUSTAINABLE OUTDOOR LIGHTING SYSTEM	EP	10161574.8	4/30/2010	LSG
LOW PROFILE LIGHT	EP	10174449.8	8/30/2010	LSG
LIGHT EMITTING DIODES WITH IMPROVED LIGHT COLLIMATION	JP	2009-507673	1/24/2007	LSG
Versatile, low cost, high power light emitting diode array package	JP	2012-56904	6/27/2006	LSG
LIGHT EMITTING DIODES WITH IMPROVED LIGHT COLLIMATION	KR	7028300/2008	1/24/2007	LSG
Multicolor LED assembly with controlled color mixing	KR	7028180/2008	4/18/2007	LSG
ROADWAY LIGHT	MX	MX/f/2012/002295	7/26/2012	LSG
LIGHTING APPARATUS	TW	097102617	1/24/2008	LSG
Method and apparatus for driving a light emitting diode	TW	97107134	2/29/2008	LSG
Seven-Cavity Led Array RGB Collimation Optic	TW	097137855	10/1/2008	LSG
ILLUMINATION DEVICES COMPRISING WHITE LIGHT EMITTING DIODES AND DIODE ARRAYS AND METHOD AND APPARATUS FOR MAKING THEM	TW	094126795	8/8/2005	LSG
Electronic light generating element light bulb	TW	94112921	4/22/2005	LSG
LED LUMINAIRE	WO	PCT/US12/027712	3/5/2012	LSG
LUMINAIRE	AU	13898/2012	8/10/2012	LSG
LUMINAIRE	BR	DI 7103786-1	9/6/2011	LSG
LUMINAIRE	CA	140117	11/2/2010	LSG
LUMINAIRE	CA	140119	11/2/2010	LSG
LUMINAIRE	CA	147498	9/19/2012	LSG
LUMINAIRE	CA	137781	11/2/2010	LSG
LUMINAIRE	CA	140114	11/2/2010	LSG
LUMINAIRE	CA	140116	11/2/2010	LSG
LUMINAIRE	CA	146356	7/4/2012	LSG

Title	Country	Serial Number	Filing Date	Owner
Luminaire	CA	146640	7/23/2012	LSG
ROADWAY LIGHT	CA	146659	7/24/2012	LSG
LUMINAIRE	CA	146940	8/10/2012	LSG
LIGHT FIXTURE / POLE FOR STREET LIGHT LUMINAIRE	EM	001744558-0001	8/17/2010	LSG
LUMINAIRE	EM	002136960-0002	11/16/2012	LSG
High Efficiency Light Source with Integrated Ballast	EP	08731105.6	2/29/2008	LSG
LUMINAIRE	IN	246330	1/4/2012	LSG

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