


Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings ⇌ ⇌ ⇌	<b>RECORDATION FORM COVER SHEET</b> <b>PATENTS ONLY</b>	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.		
1. Name of conveying party(ies): <b>Universal Lighting Technologies, Inc.</b>  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>Fleet Capital Corporation, As Agent</u>  Internal Address: _____  Street Address: <u>300 Galleria Pkwy., Suite 800</u>  City: <u>Atlanta</u> State: <u>GA</u> Zip: <u>30339</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input checked="" type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____  Execution Date: <u>10/21/04</u>	4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) _____ <u>Please see Exhibit A attached</u> B. Patent No.(s) _____ <u>Please see Exhibit A attached</u> Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Heather F. Skinner, Paralegal</u> Internal Address: <u>Parker, Hudson, Rainer &amp; Dobbs</u>  Street Address: <u>285 Peachtree Center Avenue</u> <u>1500 Marquis Two Tower</u> City: <u>Atlanta</u> State: <u>GA</u> Zip: <u>30303</u>	6. Total number of applications and patents involved: <u>34</u> 7. Total fee (37 CFR 3.41).....\$ <u>1360.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number: _____	
<b>DO NOT USE THIS SPACE</b>		
9. Signature.  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 30%;"> <u>Harrison J. Roberts, Esq.</u>            Name of Person Signing         </div> <div style="width: 30%; text-align: center;">             Signature         </div> <div style="width: 30%; text-align: right;"> <u>11/10/04</u>            Date         </div> </div> <div style="text-align: right; margin-top: 5px;">         Total number of pages including cover sheet, attachments, and documents: <u>28</u> </div>		

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

OP \$1360.00 10187304

**EXHIBIT A**  
(Continued from item 4B)  
**United States Patents**

**PATENT NUMBER**

5,396,155

5,440,475

5,461,287

5,493,180

5,493,181

5,500,576

5,539,281

5,936,357

5,925,990

5,973,455

5,982,113

6,023,132

6,091,199

6,111,365

6,137,239

6,177,769

6,274,987

6,281,641

6,291,944

6,333,605

6,437,250

6,437,520

6,720,741

**EXHIBIT A**  
(Continued from item 4B)

**United States Patent Applications**

**APPLICATION NUMBERS**

10/187,304

10/629,389

10/631,672

10/688,507

10/726,018

60/526,638

60/526,639

60/526,640

60/526,641

60/526,723

60/540,187

**AMENDED AND RESTATED PATENT SECURITY AGREEMENT**

This **PATENT SECURITY AGREEMENT** (this "Agreement") is made this 21 day of October, 2004, between **FLEET CAPITAL CORPORATION**, a Rhode Island corporation having an office at 300 Galleria Parkway, N.W., Suite 800, Atlanta, Georgia 30339, in its capacity as collateral and administrative agent for the Lenders (as hereinafter defined) (together with its successors and assigns in such capacity, "Agent"), and **UNIVERSAL LIGHTING TECHNOLOGIES, INC.**, a Delaware corporation having its principal place of business at 26 Century Boulevard, Nashville, Tennessee (the "Company").

**Recitals:**

The Company and one or more of its affiliates ("Borrowers") have obtained loans and other financial accommodations from certain financial institutions (collectively, "Lenders") party from time to time to that certain Loan and Security Agreement, dated June 15, 2001, among Borrowers, Agent and Lenders (as at any time amended, the "Original Loan Agreement"). As security for the Obligations under (and as defined in) the Original Loan Agreement, the Company executed and delivered to Agent, for the benefit of itself and the Lenders, a certain Patent Security Agreement, dated June 15, 2001 (the "Original Patent Security Agreement"), which was recorded in the United States Patent and Trademark Office on June 28, 2001, at Reel/Frame number 012177/0912.

Borrowers have requested that Agent and Lenders agree to amend and restate the terms of the Original Loan Agreement pursuant to a certain Amended and Restated Loan Agreement, dated the date hereof, among Borrowers, Agent and Lenders (the Original Loan Agreement, as so amended and restated, and as at any time further amended, restated, modified or extended, being referred to herein as the "Loan Agreement").

Agent and Lenders are willing to make loans and to provide other financial accommodations to Borrowers from time to time pursuant to the terms of the Loan Agreement, provided that the Company executes this Agreement to amend and restate the Original Patent Security Agreement.

NOW, THEREFORE, for Ten Dollars (\$10.00) in hand paid and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Company hereby agrees with Agent as follows:

1. Capitalized terms used herein (including those used in the Recitals hereto), unless otherwise defined, shall have the meanings ascribed to them in the Loan Agreement.

2. To secure the prompt payment and performance of the Obligations, the Company hereby ratifies and reaffirms the grant of a security interest to Agent, for the benefit of Agent and Lenders, pursuant to the Original Patent Security Agreement, and hereby grants and regrants, assigns and pledges to Agent, for its benefit and the pro rata benefit of Lenders and the other Secured Parties, a continuing security interest in and Lien upon all of the following property of the Company, whether now existing or hereafter created or acquired (the "Patent Collateral"):

(a) the entire right, title and interest of the Company in and to all patent applications and patents (including, without limitation, those listed in Exhibit A attached hereto (as the same may be amended from time to time)), and the inventions and improvements therein disclosed, and all re-issues, divisions, continuations, renewals, extensions and continuations-in-part thereof, including, without limitation, the right to sue for past, present and future infringements, all of the Company's rights corresponding thereto throughout the world, together with any good will of the business connected with an symbolized by any such patents and any and all past, present or future rights and interests pursuant to any and all past, present and future licensing agreements in favor of the Company, or to which the Company is a party, pertaining to any of the foregoing, owned or used by third parties in the past, present or future (all of the foregoing being herein collectively referred to as the "Patents"); and

(b) All products and proceeds of the foregoing (such as, by way of example and without limitation, all income, royalties, damages and payments now and hereafter due and/or payable under and with respect to any of the foregoing, including, without limitation, payments under all licenses entered into in connection therewith and damages and payments for past or future infringements thereof).

3. The Company covenants with and warrants to Agent that:

(a) The Patents are subsisting and have not been adjudged invalid or unenforceable, in whole or in part;

(b) The Company is now and shall continue to be the sole and exclusive owner of the entire and unencumbered right, title and interest in and to each of the Patents, free and clear of any Liens other than Permitted Liens;

(c) The Company has the unqualified right to enter into this Agreement and perform its terms and, to the extent it deems reasonably necessary, has entered and will enter into written agreements with each of its present and future employees, agents and consultants which will enable it to comply with the covenants herein contained; and

(d) The Company has used, and will continue to use for the duration of this Agreement, proper statutory notice in connection with its use of the Patents and has made, and will continue to make, all appropriate filings with the United States Patent and Trademark Office to maintain the Patents in existence, including, without limitation, filing all necessary documents with the United States Patent and Trademark Office for each Patent to maintain it without loss of protection therefor.

4. Until all of the Obligations have been satisfied in full and the Loan Agreement has been terminated, the Company shall not enter into any license agreement relating to any of the Patents with any Person except non-exclusive licenses to customers of the Company in the regular and ordinary course of the Company's business as presently conducted and for reasonable and customary compensation and non-exclusive licenses to third parties in connection with cross licensing arrangements, and shall not become a party to any agreement with any Person that is

inconsistent with the Company's obligations under this Agreement and the Company further agrees that it will not take any action, and will use commercially reasonable efforts not to permit any action to be taken by others, including, without limitation, licensees, or fail to take any action, which would in any respect affect the validity or enforcement of the rights transferred to the Agent under this Agreement or the rights associated with the Patents.

5. If, before the Obligations shall have been satisfied in full, the Company shall obtain rights to any new patentable inventions, or become entitled to the benefit of any patent application or patent for any reissue, division, continuation, renewal, extension or continuation-in-part of any Patent or any improvement on any Patent, the provisions of paragraph 2 shall automatically apply thereto (which shall be deemed to be and treated as "Patent Collateral" within the meaning of this Agreement) and the Company shall give to Agent prompt notice thereof in writing.

6. The Company irrevocably authorizes and empowers Agent (x) to modify this Agreement by amending Exhibit A to include any future patents and patent applications within the definition of Patents under paragraph 2 or paragraph 5 hereof and (y) to file, in addition to and not in substitution for this Agreement, a duplicate original of this Agreement containing an amended Schedule A thereto, reflecting any such future patents and patent applications.

7. The Company hereby grants to Agent, and its employees and agents (and any Lender or Lenders and their respective employees and agents), the right upon prior notice to the Company, and subject only to any obligations of confidentiality to which the Company, its employees and agents are then subject with respect thereto, to visit the Company's plants and facilities at which any patented inventions are located or which manufacture, inspect or store products made under any of the Patents and to inspect the products and quality control records relating thereto and to examine the Company's books, records (and make copies thereof) and operations relating thereto, at reasonable times during regular business hours.

8. At any time an Event of Default exists, Agent shall have, in addition to all other rights and remedies given it by this Agreement, all rights and remedies under Applicable Law and all rights and remedies of a secured party under the UCC. Without limiting the generality of the foregoing, Agent may immediately, for its benefit and the pro rata benefit of Lenders, without demand of performance and without other notice (except as described in the next sentence, if required by Applicable Law) or demand whatsoever to the Company, each of which the Company hereby expressly waives, and without advertisement (except as otherwise provided by Applicable Law), collect directly any payments due the Company in respect of the Patent Collateral, or sell at public or private sale or otherwise realize upon the whole or from time to time any of the Patent Collateral, or any interest which the Company may have therein. The Company hereby agrees that seven (7) days notice to the Company of any public or private sale or other disposition of any of the Patent Collateral shall be reasonable notice; provided, however, that no notice shall be required hereunder if not otherwise required by Applicable Law. At any such sale or disposition, Agent may, to the extent permitted by Applicable Law, purchase the whole or any part of the Patent Collateral sold, free from any right of redemption on the part of the Company, which right the Company hereby waives and releases. After deducting from the proceeds of such sale or other disposition of the Patent Collateral all costs and expenses incurred by Agent in enforcing its rights hereunder (including, without limitation, all attorneys' fees), Agent shall apply the remainder of such proceeds

to the payment of the Obligations, in such order or manner as may be authorized or required by the Loan Agreement. Any remainder of the proceeds after payment in full of the Obligations shall be paid over to the Company. If any deficiency shall arise, the Company and each guarantor of the Obligations shall remain jointly and severally liable to Agent and Lenders therefor.

9. The Company hereby makes, constitutes and appoints Agent, and any officer or agent of Agent as Agent may select, as the Company's true and lawful attorney-in-fact, with full power to do any or all of the following if an Event of Default shall occur and be continuing: to endorse the Company's name on all applications, documents, papers and instruments necessary for Agent to continue the maintenance of or to use the Patents, or to grant or issue any exclusive or nonexclusive license under the Patents to any other Person, or to assign, pledge, convey or otherwise transfer title in or dispose of any Patent Collateral to any other Person. The Company hereby ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof. This power of attorney, being coupled with an interest, shall be irrevocable until all of the Obligations shall have been satisfied in full and the Loan Agreement shall have been terminated.

10. At such time as all of the Obligations shall have been satisfied finally and in full and the Loan Agreement shall have been terminated, Agent shall execute and deliver to the Company, without representation, warranty or recourse and at the Company's expense, all releases and other instruments necessary to terminate Agent's security interest in the Patent Collateral, subject to any disposition thereof which may have been made by Agent pursuant to the terms of this Agreement, or any of the other Loan Documents.

11. Any and all fees, costs and expenses, of whatever kind or nature, (including, without limitation, reasonable attorneys' fees and legal expenses) incurred by Agent or any Lender in connection with the preparation of this Agreement and any other documents relating hereto and the consummation of this transaction, the filing or recording of any documents (including, without limitation, all taxes in connection therewith) with the United States Patent and Trademark Office or in other public offices, the payment or discharge of any taxes, counsel fees, maintenance fees or Liens, or otherwise, in protecting, maintaining and preserving any Patent Collateral or in defending or prosecuting any actions or proceedings arising out of or related to any Patent Collateral, shall be borne and paid by the Company (it being the intent of the Company and Agent that the Company shall be responsible for the payment of all sums, fees, costs and expenses, including, without limitation, all maintenance fees payable with respect to the Patents) or, if paid by Agent in its sole discretion, shall be reimbursed by the Company to Agent on demand by Agent and until so paid shall be added to the principal amount of the Obligations and shall bear interest at the highest per annum rate in effect from time to time under the Credit Agreement.

12. The Company shall use all reasonable efforts to detect any infringers of the Patents and shall notify the Agent in writing of infringerments detected. The Company shall have the duty through counsel reasonably acceptable to Agent, to prosecute diligently any patent application for a Patent pending as of the date of this Agreement or thereafter until the Obligations shall have been paid in full and the Loan Agreement terminated, to make application on unpatented but patentable inventions (subject to Company's reasonable discretion in Ordinary Course of Business, or, during the existence of an Event of Default or a Default, promptly upon Agent's request), to file and prosecute opposition and cancellation proceedings, to file and prosecute lawsuits to protect the

Patents and to do any and all acts which are deemed necessary or desirable by Agent to preserve and maintain all rights in patent applications for the Patents. Any expenses incurred in connection with such an application or proceedings shall be borne by the Company. The Company shall not abandon any pending patent application or patent, without the prior written consent of Agent.

13. Notwithstanding anything to the contrary contained in paragraph 12 hereof Agent shall have the right, but shall in no way be obligated, to bring suit in its own name to enforce the Patents and any license hereunder, or to defend any suit or counterclaim in its own name to protect any Patents or license hereunder, in either of which events the Company shall at the request of Agent do any and all lawful acts (including bringing suit) and execute any and all proper documents required by Agent in aid of such enforcement or defense and the Company shall promptly, upon demand, reimburse and indemnify Agent for all costs and expenses incurred by Agent in the exercise of its rights under this paragraph 13.

14. If the Company fails to comply with any of its obligations hereunder, then to the extent permitted by Applicable Law, Agent may do so in the Company's name or in Agent's name, in Agent's sole discretion, but at the Company's expense, and the Company agrees to reimburse Agent in full for all expenses, including, without limitation, reasonable attorneys' fees, incurred by Agent in prosecuting, defending or maintaining the Patents or Agent's interest therein pursuant to this Agreement.

15. No course of dealing between the Company and Agent, nor any failure to exercise, nor any delay in exercising, on the part of Agent, any right, power or privilege hereunder or under any of the other Loan Documents shall operate as a waiver thereof; nor shall any single or partial exercise of any right, power or privilege hereunder or thereunder preclude any other or future exercise thereof or the exercise of any other right, power or privilege.

16. All of Agent's rights and remedies with respect to the Patent Collateral, whether established by this Agreement or any of the other Loan Documents, or by any other agreements or by Applicable Law, shall be cumulative and may be exercised singularly or concurrently. The Company hereby agrees that the use by the Agent of the Patents as authorized hereunder in connection with the exercise of its remedies under the Loan Agreement and the other Loan Documents shall be coextensive with the Company's rights under the Patents and with respect thereto and without any liability for royalties or other related charges from the Agent or the Lenders to the Company.

17. The provisions of this Agreement are severable, and if any clause or provision shall be held invalid and unenforceable, in whole or in part, in any jurisdiction, the same shall be deemed severed herefrom and shall not in any manner affect such clause or provisions in any other jurisdiction, or any other clause or provision of this Agreement in any jurisdiction.

18. This Agreement, together with the other Loan Documents, constitutes and expresses the entire understanding of the parties hereto with respect to the subject matter hereof, and supercedes all prior agreements and understandings, inducements or conditions, whether express or implied, oral or written. This Agreement is subject to modification only by writing signed by the parties, except as provided in paragraph 6 hereof



19. The benefits and burdens of this Agreement shall inure to the benefit of and be binding upon the successors and assigns of Agent and upon the successors and permitted assigns of the Company. The Company shall not assign its rights or delegate its rights or assign its duties hereunder without the prior written consent of Agent.

20. The Company hereby waives notice of Agent's acceptance hereof.

21. This Agreement amends and restates the Original Patent Security Agreement and is not intended to be or operate as a novation or an accord and satisfaction of the Original Patent Security Agreement or the obligations evidenced or secured thereby or provided for thereunder.


22. This Agreement is intended to take effect as a sealed instrument and shall be construed and enforced and the rights and duties of the parties shall be governed by in all respects in accordance with the internal laws (as opposed to conflicts of law provisions, provided that issues with respect to Article 9 of the Uniform Commercial Code may give effect to applicable choice or conflict of law rules set forth in Article 9 the Uniform Commercial Code) and decisions of the State of Georgia.

23. To the fullest extent permitted by Applicable Law, the Company and Agent each waives the right to trial by jury in any action, suit, proceeding or counterclaim of any kind arising out of or related to this Agreement or the Patent Collateral.

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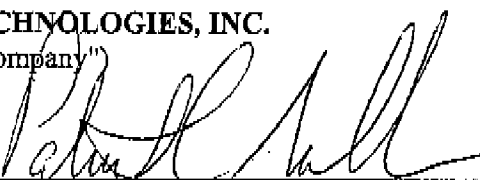
IN WITNESS WHEREOF, the parties hereto have executed this Agreement under seal on the day and year first written above.

ATTEST:

  
\_\_\_\_\_  
~~Brian E. Ramsay~~ Secretary  
~~Saffrey Benverdt~~  
[CORPORATE SEAL]

  
\_\_\_\_\_  
Witness

UNIVERSAL LIGHTING  
TECHNOLOGIES, INC.  
("Company")

By:   
\_\_\_\_\_  
Patrick A. Sullivan, Chief Executive  
Officer

Accepted:

FLEET CAPITAL CORPORATION, as  
Agent ("Agent")

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this Agreement under seal on the day and year first written above.

ATTEST:

**UNIVERSAL LIGHTING  
TECHNOLOGIES, INC.**  
("Company")

\_\_\_\_\_  
**Jeffrey Behrendt, Secretary**

[CORPORATE SEAL]

By: \_\_\_\_\_  
**Patrick A. Sullivan, President and  
Chief Executive Officer**

\_\_\_\_\_  
Witness

Accepted:

**FLEET CAPITAL CORPORATION, as  
Agent ("Agent")**

By: *Douglas Cowan*  
Name: *Douglas Cowan*  
Title: *Vice President*

STATE OF TN §  
COUNTY OF Davidson §  
§

BEFORE ME, the undersigned authority, on this day personally appeared Patricia Sullivan  
the CEO of **UNIVERSAL LIGHTING TECHNOLOGIES, INC.**, to me known to be  
the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he  
executed the same for the purposes and consideration therein expressed, in the capacity therein  
stated, and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this \_\_\_ day of October, 2004.

[Signature]  
Notary Public  
My Commission Expires: 05/29/05

[NOTARIAL SEAL]

STATE OF \_\_\_\_\_ §  
COUNTY OF \_\_\_\_\_ §  
§

BEFORE ME, the undersigned authority, on this day personally appeared \_\_\_\_\_,  
a \_\_\_\_\_ of **FLEET CAPITAL CORPORATION**, known to me to be the person  
whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the  
same for the purposes and consideration therein expressed, in the capacity therein stated, and as the  
act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this \_\_\_ day of October, 2004.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

[NOTARIAL SEAL]

STATE OF \_\_\_\_\_ §  
 COUNTY OF \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this day personally appeared \_\_\_\_\_, the \_\_\_\_\_ of **UNIVERSAL LIGHTING TECHNOLOGIES, INC.**, to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated, and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this \_\_\_\_ day of October, 2004.

\_\_\_\_\_  
 Notary Public  
 My Commission Expires:

\_\_\_\_\_  
 [NOTARIAL SEAL]

STATE OF Georgia §  
 COUNTY OF Cobb §

BEFORE ME, the undersigned authority, on this day personally appeared Douglas E. Cowan, a Vice President of **FLEET CAPITAL CORPORATION**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated, and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this 21<sup>st</sup> day of October, 2004.

Charles R. Henry  
 Notary Public  
 My Commission Expires:

Notary Public, Paulding County, Georgia  
My Commission Expires June 6, 2005

\_\_\_\_\_  
 [NOTARIAL SEAL]

**EXHIBIT A**

# Exhibit A

## Patents and Patent Applications of Universal Lighting Technologies, Inc.

<i>IP Type</i>	<i>Country</i>	<i>Description</i>	<i>AppSerNo</i>	<i>Filing Date</i>	<i>IssueNo</i>	<i>Issue Date</i>	<i>Status</i>
<i>Provisional Patent Applications</i>							
	U.S.	Adaptive Preheat and Strike for Microcontroller Based Ballast	60/526,639	12/3/03			File international/utility applications 12/3/04
	U.S.	High Efficiency 4-lamp Instant Start Ballast	60/526,641	12/3/03			File international/utility applications 12/3/04
	U.S.	High Input Voltage Microcontroller Based Instant Start Ballast	60/526,638	12/3/03			File international/utility applications 12/3/04
	U.S.	IC Based Low Cost Reliable Electronic Ballast with Multiple Striking Attempts and End of Lamp Life Protection	60/526,723	12/3/03			File international/utility applications 12/3/04
	U.S.	Low Loss Power Supply Management for Ballast with Microcontroller	60/526,640	12/3/03			File international/utility applications 12/3/04
	U.S.	Methods of Striation Control for Current Fed, Parallel Resonant Inverters	60/540,187	1/29/04			File international/utility applications 1/29/05

<i>IP Type</i>	<i>Country</i>	<i>Description</i>	<i>AppSerNo</i>	<i>Filing Date</i>	<i>IssueNo</i>	<i>Issue Date</i>	<i>Status</i>
<i>Utility Patents and Applications</i>							
	Canada	Electronic Ballast Having End Of Lamp Life, Overheating, And Shut Down Protections, And Recognition And Multiple Striking Capabilities	2,456,386	1/29/04			File Assignment 1/29/05
	Canada	Electronic Ballast with Frequency Management	2,338,507	7/20/99			Annulity due 7/20/05
	Canada	Lamp Protective, Electronic Ballast	2,214,226	9/29/97	2,214,226	8/6/02	Annulity Due 3/29/05
	Canada	LED Drive For Generating Constant Light Output	2,456,391	1/29/04			File Assignment 1/29/05
	Canada	Lighting-Bobbin with Strain Relief	515,368	8/6/86	1,257,669	7/18/89	Issued-expires 7/18/06
	Canada	Lighting-Fluorescent Ballast Assembly	512,028	6/20/86	1,259,679	9/19/89	Issued-expires 9/19/06
	Canada	Lighting-Isolated Constant Wattage Lamp Ballast	2,151,305	4/8/95			Pay annulity 8/8/05



<i>IP Type</i>	<i>Country</i>	<i>Description</i>	<i>AppSerNo</i>	<i>Filing Date</i>	<i>IssueNo</i>	<i>Issue Date</i>	<i>Status</i>
	Canada	Microprocessor Controlled Electronic Ballast	2,315,107		12/15/98		Annuity Due 12/15/04
	Canada	Software Controlled Electronic Dimming Ballast	2,456,389		1/29/04		File Assignment 1/29/05
	Canada	Transient Detection Of End Of Lamp Life Condition Apparatus And Method	2,456,392		1/29/04		File Assignment 1/29/05
	Europe	Electronic Ballast with Filament Cut-Out	99921922.3		5/12/99		Annuity Due 5/12/05
	Europe	Electronic Ballast With Frequency Management	99935790.8		7/20/99		Annuity Due 7/20/05
	Europe	Microprocessor Controlled Electronic Ballast	98963193.2		12/15/98		Annuity Due 12/15/04
	France	Lighting-Fluorescent Lamp Power Control	92 01817		2/18/92	4/7/95	Issued-annuity due 2/18/05
	Mexico	Electrical Connector with Improved Centering of Mating Terminal Pins for a Fluor.-Lighting Ballast	951747		4/10/95	5/16/97	Issued-verified receipt of annuity payment 10/30/02

<i>IP Type</i>	<i>Country</i>	<i>Description</i>	<i>AppSerNo</i>	<i>Filing Date</i>	<i>IssueNo</i>	<i>Issue Date</i>	<i>Status</i>
	Mexico	Electronic Ballast Having End Of Lamp Life, Overheating, And Shut Down Protections, And Recognition And Multiple Striking Capabilities	PA/a/2004/0023 57	3/12/04			File POA and assignment by 8/4/04
	Mexico	LED Drive For Generating Constant Light Output	PA/a/2004/0023 58	3/12/04			File POA and assignment by 8/4/04
	Mexico	Microprocessor Controlled Electronic Ballast	2000/006056	6/19/00			Issue fee paid
	Mexico	Software Controlled Electronic Dimming Ballast	PA/a/2004/0023 59	3/12/04			File POA and assignment by 8/4/04
	Mexico	Transient Detection Of End Of Lamp Life Condition Apparatus And Method	PA/a/2004/0023 60	3/12/04			File POA and assignment by 8/4/04
U.S.		Booster Driven Inverter Ballast Employing the Output from the Inverter to Trigger the Booster	202,053	2/25/94	5,481,287	10/24/95	Issued-maintenance fee due 4/24/07
U.S.		Cable Reel Structure	832,805	4/12/01	6,437,250	8/20/02	issued-maintenance fee due 12/20/06
U.S.		Capacitive Lamp Out Detector	436,789	5/8/95	5,493,181	2/20/96	Issued-maintenance fee due 8/20/07

<i>IP Type</i>	<i>Country</i>	<i>Description</i>	<i>AppSerNo</i>	<i>Filing Date</i>	<i>IssueNo</i>	<i>Issue Date</i>	<i>Status</i>
	U.S.	Electric Ballast with Selective Power Dissipation	447,333	11/22/99	6,177,769	1/23/01	issued-maintenance fee due 7/23/08
	U.S.	Electronic Ballast Deriving Auxiliary Power from Lamp Output	170,144	10/12/98	6,023,132	2/8/00	issued-maintenance fee due 8/8/07
	U.S.	Electronic Ballast Having End of Lamp Life, Overheating, and Shut Down Protections, and Relamping and Multiple Striking Capabilities	10/688,507	10/17/03			Pending
	U.S.	Electronic Ballast Having Open Circuit in Output	10/066,059	2/1/02	6,720,741	4/13/04	Issued-maintenance fee due 10/13/07
	U.S.	Electronic Ballast Producing Voltage Having Trapezoidal Envelope for Instant Lamp	879,181	6/20/97	5,982,113	11/9/99	issued-maintenance fee due 5/9/07
	U.S.	Electronic Ballast that Manages Switching Frequencies for Extrinsic Purposes	122,231	7/24/98	5,936,357	8/10/99	Issued-maintenance fee due 2/10/07
	U.S.	Electronic Ballast with Cross-Coupled Outputs	09/613,919	7/11/00	6,437,520	8/20/02	Pay maintenance fee 2/20/06
	U.S.	Electronic Ballast With Filament Cut-Out	079,844	5/15/98	5,973,455	10/29/99	Issued-maintenance fee due 4/26/07

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	U.S.	Electronic Ballast with Low Harmonic Distortion	148,295	11/8/93	5,440,475	8/8/95	Issued-maintenance fee due 2/8/07
	U.S.	Electronic Ballast with Selective Load Control	372,201	8/11/99	6,137,239	10/24/00	issued-maintenance fee due 4/24/08
	U.S.	Externally Dimmable Electronic Ballast	376,774	1/23/95	5,539,281	7/23/96	Issued-maintenance fee due 1/23/08
	U.S.	Fast Starting, Surge Limited, Electronic Ballast	394,885	9/13/99	6,111,365	8/29/00	Issued-maintenance fee due 2/29/08
	U.S.	Heat Spreader for Electronic Ballast	903,311	7/30/97	6,091,199	7/18/00	issued-maintenance fee due 1/18/08
	U.S.	Lamp Protective, Electronic Ballast	416,022	3/31/95	5,493,180	2/20/96	Issued-maintenance fee due 8/20/07
	U.S.	LED Drive for Generating Constant Light Output	10629,389	7/29/03			Pending
	U.S.	Light Modulating Electronic Ballast	431,822	11/2/99	6,333,605	12/25/01	issued-maintenance fee due 6/25/05

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	U.S.	Lighting-Apparatus & Method for Improving Assembly of Leadless Ballasts into Fluorescent Luminaries	08/128,591	9/28/93	5,405,271	4/11/95	issued-maintenance fee due 10/11/06
	U.S.	Lighting-Auto Transformer	838,467	4/15/86	4,724,602	2/16/88	issued-expires 4/15/06
	U.S.	Lighting-Bobbin with Strain Relief	710,982	3/12/85	4,636,763	1/13/87	issued-expires 3/12/05
	U.S.	Lighting-Combination MH/HPS Ballast	09/574,902	5/19/00	6,225,757 B1	5/1/01	issued-maintenance fee due 11/1/04
	U.S.	Lighting-Compact Fluorescent Lamp with an Air Gap for Thermal Isolation	09/312,973	5/17/99	6,204,602	3/20/01	Issued-maintenance fee due 9/20/04
	U.S.	Lighting-Constant Illumination Electronic Ballast	798,265	11/15/85	4,716,343	12/29/87	Issued-expires 11/15/05
	U.S.	Lighting-Device & Method for Capacitive Bi-Level Switching of High Intensity Discharge Lighting	09/127,200	7/31/98	6,031,340	2/29/00	issued-maintenance fee due 8/29/07
	U.S.	Lighting-Diode Clamping Arrangement for Use in Electronic Ballasts	08/642,785	5/3/96	5,850,925	7/22/97	Issued-maintenance fee due 7/22/05

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	U.S.	Lighting-Electronic Ballast for One or More Lamps	09/562,158	5/1/00	6,281,541	8/28/01	Issued-maintenance fee due 2/28/05
	U.S.	Lighting-Electric Coil with Tap Transferring to End-Layered Position	175,951	3/31/88	4,808,959	2/28/89	Patent Expires 3/31/08
	U.S.	Lighting-Electrical Connector with Improved Centering of Mating Terminal Pins, for a Fluorescent-Lighting Ballast	224,811	4/8/94	5,488,268	1/30/96	Issued-maintenance fee due 7/30/2007
	U.S.	Lighting-Electrical Connector With Improved Safety Latching For A Fluorescent-Lighting Ballast	08/960,711	10/30/97	5,788,527	8/4/98	Issued-maintenance fee due 8/4/06
	U.S.	Lighting-Electrical Half Connector With Contact-Centering Vanes	006,313	1/19/93	5,350,292	9/27/94	Issued-maintenance fee due 9/27/06
	U.S.	Lighting-Electrical Lead with Integral Terminal	936,809	12/2/86	4,775,337	10/4/88	Patent expires 12/2/06
	U.S.	Lighting-Electrical Terminal	111,044	10/20/87	4,812,601	3/14/89	Expires 10/20/07
	U.S.	Lighting-Electronic Ballast with High Voltage Protection	098,580	9/18/87	4,902,938	2/20/90	Issued-expires 2/20/10

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	U.S.	Lighting-Filament Switch for a Lamp Ballast	541,609	6/21/90	5,132,595	7/21/92	Expires 6/21/10
	U.S.	Lighting-Fluorescent Ballast Assembly	122,577	11/16/87	4,766,406	8/23/88	Expires 11/16/07
	U.S.	Lighting-Fluorescent Lamp Dimming Switch	945,223	12/19/86	4,686,427	8/11/87	Expires 12/19/2006
	U.S.	Lighting-Fluorescent Lamp Power Control	657,114	2/19/91	5,204,587	4/20/93	Issued-maintenance fee due 10/20/04
	U.S.	Lighting-Fluorescent-Lamp Leadless Ballast with Improved Connector	009,645	5/14/93	5,350,316	9/27/94	Issued-maintenance fee due 3/27/06
	U.S.	Lighting-Fluorescent-Lamp Leadless Ballast With Improved Connector	680,699	4/4/91	5,260,678	11/9/93	Issued-maintenance fee due 11/9/05
	U.S.	Lighting-Housing for Thermal Protector	08/098,471	7/27/93	5,463,522	10/31/95	Issued-maintenance fee due 4/31/07
	U.S.	Lighting-Housing with Integral Mounting Bracket	08/531,585	9/21/95	5,817,975	10/6/98	Issued-maintenance fee due 4/6/06

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	U.S.	Lighting-Hybrid Sequence Start Ballast	08/395,499	2/24/95	5,731,667	3/24/98	Issued-maintenance fee due 3/4/10
	U.S.	Lighting-Integral Housing for Ballasts and Fluorescent Lamps	088,557	7/7/93	5,349,508	9/20/94	Issued-maintenance fee due 3/20/06
	U.S.	Lighting-Integrated-Magnetic Filter Having a Lossy Shunt	08/613,217	3/8/98	5,731,666	3/24/98	Issued-maintenance fee due 9/24/05
	U.S.	Lighting-Isolated Constant Wattage Lamp Ballast	257,346	6/9/94	5,497,052	3/5/96	Issued-maintenance fee due 9/5/07
	U.S.	Lighting-Lamp Protection Circuit for Electronic Ballasts	08/644,209	5/10/96	5,635,799	6/3/97	Issued-maintenance fee due 12/3/04
	U.S.	Lighting-Low Cost Power Factor Correction	08/385,906	2/9/95	5,568,041	10/22/96	Issued-maintenance fee due 4/22/2008
	U.S.	Lighting-Method for Assembling an Inductive Device	08/397,574	3/2/95	5,625,939	5/6/97	Issued-maintenance fee due 11/6/04
	U.S.	Lighting-Methods of Manufacturing Ballasts and Starter Assemblies Used in Gas Discharge Lamps	09/168,722	10/8/98	6,074,263	6/13/00	Issued-maintenance fee due 12/13/07



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	U.S.	Lighting-Neon Lamp Isolation Transformer for Mid-Point Commoned Neon Lamps	08/752,646	11/19/96	5,816,181	10/6/98	Issued-maintenance fee due 4/6/06
	U.S.	Lighting-Power Factor Correcting Flyback Arrangement Having a Resonant Capacitor Element Connected Across The Switching	08/306,499	9/15/94	5,583,398	12/10/96	Issued-maintenance fee due 6/10/06
	U.S.	Lighting-Power Factor Correction Circuit	08/194,916	2/14/94	5,614,810	3/25/97	Issued-maintenance fee due 9/25/04
	U.S.	Lighting-Power Sensing Shutdown	08/646,470	5/8/96	6,274,987 B1	8/14/01	Issued-maintenance fee due 2/14/09
	U.S.	Lighting-Programmed-Start Parallel-Resonant Electronic Ballast	08/742,355	11/1/96	5,877,592	3/2/99	Issued-maintenance fee due 9/2/06
	U.S.	Lighting-Protected Dimming Control Interface For An Electronic Ballast	09/507,425	2/19/00	6,204,613	3/20/01	Issued-maintenance fee due 9/20/04
	U.S.	Lighting-Pulse-Width Modulator Circuit For Use In Low-Cost Power Factor Correction Circuit	08/642,562	5/3/96	5,838,181	11/17/98	Issued-maintenance fee due 5/17/06
	U.S.	Lighting-Recessed Bushing Style Luminous Tube Transformer Featuring Versatile Mounting Configuration	08/576,222	12/22/96	5,735,703	4/7/98	Issued-maintenance fee due 10/7/09

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	U.S.	Lighting-Retention Clip for a Thermal Protection Sensor	194,744	5/17/88	4,924,350	5/8/90	Issued-expires 5/17/08
	U.S.	Lighting-Safety Control Circuit for Detecting the Removal of Lamps from a Ballast and Reducing the Through-Lamp Leakage Currents	09/070,885	4/30/98	6,051,940	4/18/00	issued-maintenance fee due 10/18/07
	U.S.	Lighting-Safety Protector for Non-Isolated Ballasts	08/539,826	10/6/95	5,642,019	6/24/97	Issued-maintenance fee due 12/2/04
	U.S.	Lighting-Secondary Ground Fault Protected Luminous Tube Transformer for Mid-Point Connected Luminous Tubes	08/715,873	9/19/86	5,751,523	5/12/98	Issued-maintenance fee due 11/12/05
	U.S.	Lighting-Shunt Holding Means For Ballasts	331,517	3/31/89	4,952,899	8/28/90	Issued-patent expires 6/26/09
	U.S.	Lighting-Shunt Retaining Clip in a Ballast	449,702	12/11/89	4,937,547	6/26/90	Issued-patent expires 6/26/09
	U.S.	Lighting-Simplified Ballast Assembly	08/226,714	4/12/94	5,510,762	4/23/96	Issued-maintenance fee due 10/23/07
	U.S.	Lighting-Speed-up Circuit for Switched Power Transistor	06/798,264	11/15/85	4,667,281	5/19/87	Issued-expires 11/15/2005

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	U.S.	Lighting-Symmetry Control Circuit and Method	08/190,746	1/31/94	5,583,402	12/10/96	Issued-maintenance fee due 6/10/08
	U.S.	Lighting-Symmetry Control Circuit for Pre-Heating in Electronic Ballasts	08/190,393	8/7/97	5,959,408	9/28/99	issued-maintenance fee due 3/28/07
	U.S.	Lighting-System & Method for Limiting Through-Lamp Ground Fault Currents in Non-Isolated Electronic Ballasts	09/566,252	5/5/00	6,291,944	9/18/01	Issued-maintenance fee due 3/18/05
	U.S.	Lighting-Three-Way Fluorescent Adapter	08/585,399	1/11/96	5,831,395	11/3/98	Issued-maintenance fee due 5/3/06
	U.S.	Lighting-Universal Input Dimmer	08/499,771	7/7/95	5,751,118	5/12/98	Issued-maintenance fee due 11/12/05
	U.S.	Lighting-Wire Bobbin for Inductive Devices	187,369	4/28/88	4,853,667	8/1/89	Expires 4/28/08
	U.S.	Low Height Ballast for Fluorescent Lamps	227,953	4/15/94	5,500,576	3/19/96	Issued-maintenance fee due 9/19/07
	U.S.	Microprocessor Controlled Electronic Ballast	995,278	12/19/97	5,925,990	7/20/99	Issued-maintenance fee due 6/20/05

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	U.S.	Secondary Ground Fault Protected Neon Transformer	10/187,304	7/1/02			Pay issue fee 10/29/04
	U.S.	Self-dimming Electronic Ballast	266,746	6/28/94	5,396,155	3/7/95	Issued-maintenance fee due 9/7/06
	U.S.	Software Controlled Dimming Ballast	10/726,018	12/2/03			File international applications by 12/2/04
	U.S.	Transient Detection of End of Lamp Life Condition Apparatus and Method	10/631,672	7/31/03			File missing parts 8/14/04

Non-Exclusive Licensing Agreement between Lutron Electronics Corporation, Inc. and Universal Lighting Technologies Inc., dated 2/4/04