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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/373,200	04/02/2019	TAO JIANG	6246-40007US13	5268
25570	7590	06/07/2019	EXAMINER	
Roberts Mlotkowski Safran Cole & Calderon, P.C.			TAN, VIBOL	
7918 Jones Branch Drive			ART UNIT	PAPER NUMBER
Suite 500			2844	
McLean, VA 22102			NOTIFICATION DATE	DELIVERY MODE
			06/07/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 112

2. The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 1 recites the limitation "the input terminals" in line 21, "the plurality of electronic components" in line 23. There is insufficient antecedent basis for this limitation in the claim.

4. The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

(a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claim 19 is rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for pre-AIA the inventor(s), at the time the application was filed, had possession of the claimed invention. There appears to be no support for "wherein the resistor causes open circuit when a current flowing through the resistor exceeds a current rating or when environment temperature inside the LED tube lamp exceeds a temperature rating". Please point out in the specification for support.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

7. Claim(s) 1, 20 and 34 is/are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Chen et al. (US 2010/0277918).

In claim 1, Chen discloses in Fig. 1, an LED tube lamp, comprising:

a tube (10) having two ends (two ends of tube 10);

an LED light strip disposed inside the tube (LED array 21);

a plurality of LED light sources mounted on the LED light strip (21 mounted on pcb 20);

a power supply module electrically connecting to the LED light strip and configured to drive the plurality of LED light sources ([0014]; a power supply circuit 40 is arranged inside at least one of the end caps); and

a first end cap and second end cap respectively attached at the two ends of the tube (caps 30), each of the first and second end caps comprising a lateral wall (fit onto tube 10) and an end wall (vertical wall at end of cap 30), the lateral wall substantially being coaxial with the tube and connecting to the tube, the end wall substantially being perpendicular to an axial direction of the lateral wall and connecting to an end of the lateral wall away from the tube (see Fig. 1 of Chen),

wherein the power supply module comprises a printed circuit board (a board in Fig. 1 where terminal 41 attached onto) and a plurality of electronic components mounted on the printed circuit board ([0003]; electronic components), the printed circuit board comprises a first surface and a second surface opposite to and substantially parallel to the first surface (as shown in Fig. 1), and the first surface and the second surface of the printed circuit board are substantially parallel with the axial direction of the lateral wall;

wherein at least some of the electronic components comprise a rectifying circuit (rectifier is part of the power supply 40) having at least two input terminals and configured to rectify signal receiving from the input terminals (AC lines), at least one of the electronic components comprises a filtering circuit (part of the power supply 40) electrically connecting to the rectifying circuit ([0024]; a power supply circuit (40) is arranged inside at least one of the end caps (30). The power supply circuit (40) has an inner end forming a set of inner contacts (42) respectively engageable with the two conductive terminals (22) of the corresponding end of the circuit board (20) and an outer end forming outer terminals (41) that extend beyond the end cape (30) to thereby form a lighting tube),

wherein the plurality of electronic components (part of the power supply 40) comprise a resistor (other electronic components; [0003]) which is positioned closest to the end wall of the first end cap and connecting to one of the input terminals of the rectifying circuit ([0014]; a power supply circuit is arranged inside at least one of the end caps).

In claim 20, Chen discloses in Fig. 1, an LED tube lamp, comprising:

a tube (10) having two ends (two ends of tube 10);

an LED light strip disposed inside the tube (LED array 21);

a plurality of LED light sources mounted on the LED light strip (21 mounted on pcb 20);

a power supply module electrically connecting to the LED light strip and configured to drive the plurality of LED light sources ([0014]; a power supply circuit 40 is arranged inside at least one of the end caps); and

a first end cap and second end cap respectively attached at the two ends of the tube (caps 30), each of the first and second end caps comprising a lateral wall (fit onto tube 10) and an end wall (vertical wall at end of cap 30), the lateral wall

substantially being coaxial with the tube and connecting to the tube, the end wall substantially being perpendicular to an axial direction of the lateral wall and connecting to an end of the lateral wall away from the tube (see Fig. 1 of Chen),

wherein the power supply module comprises a printed circuit board (a board in Fig. 1 where terminal 41 attached onto) and a plurality of electronic components mounted on the printed circuit board ([0003]; electronic components), the printed circuit board comprises a first surface and a second surface opposite to and substantially parallel to the first surface (as shown in Fig. 1), and the first surface and the second surface of the printed circuit board are substantially parallel with the axial direction of the lateral wall;

wherein at least some of the electronic components comprise a rectifying circuit (rectifier is part of the power supply 40) having at least two input terminals and configured to rectify signal receiving from the input terminals (AC lines), at least one of the electronic components comprises a filtering circuit (part of the power supply 40) electrically connecting to the rectifying circuit ([0024] a power supply circuit (40) is arranged inside at least one of the end caps (30). The power supply circuit (40) has an inner end forming a set of inner contacts (42) respectively engageable with the two conductive terminals (22) of the corresponding end of the circuit board (20) and an outer end forming outer terminals (41) that extend beyond the end cape (30) to thereby form a lighting tube),

wherein the filtering circuit (part of the power supply 40) comprises an inductor (inductor; [0003]), the inductor is positioned closest to the end wall of one of the first and second end caps and connect to one of the input terminals of the rectifying circuit ([0014]; a power supply circuit is arranged inside at least one of the end caps).

In claim 34, Chen discloses in Fig. 1, an LED tube lamp, comprising:

a tube (10) having two ends (two ends of tube 10);

an LED light strip disposed inside the tube (LED array 21);

a plurality of LED light sources mounted on the LED light strip (21 mounted on pcb 20);

a power supply module electrically connecting to the LED light strip and configured to drive the plurality of LED light sources ([0014]; a power supply circuit 40 is arranged inside at least one of the end caps); and

a first end cap and second end cap respectively attached at the two ends of the tube (caps 30), each of the first and second end caps comprising a lateral wall (fit onto tube 10) and an end wall (vertical wall at end of cap 30), the lateral wall substantially being coaxial with the tube and connecting to the tube, the end wall substantially being perpendicular to an axial direction of the lateral wall and connecting to an end of the lateral wall away from the tube (see Fig. 1 of Chen),

wherein the power supply module comprises a printed circuit board (a board in Fig. 1 where terminal 41 attached onto) and a plurality of electronic components mounted on the printed circuit board ([0003]; electronic components), the printed circuit board comprises a first surface and a second surface opposite to and substantially parallel to the first surface (as shown in Fig. 1), and the first surface and the second surface of the printed circuit board are substantially parallel with the axial direction of the lateral wall;

wherein at least some of the electronic components comprise a rectifying circuit (rectifier is part of the power supply 40) having at least two input terminals and configured to rectify signal receiving from the input terminals (AC lines), at least one of the electronic components comprises a filtering circuit (part of the power supply 40) electrically connecting to the rectifying circuit ([0024]

a power supply circuit (40) is arranged inside at least one of the end caps (30). The power supply circuit (40) has an inner end forming a set of inner contacts (42) respectively engageable with the two conductive terminals (22) of the corresponding end of the circuit board (20) and an outer end forming outer terminals (41) that extend beyond the end cap (30) to thereby form a lighting tube),

wherein the plurality of electronic components (part of the power supply 40) comprise a capacitor (capacitors; [0003]) which is positioned closest to the end wall of the first end cap and connecting to one of the input terminals of the rectifying circuit ([0014]; a power supply circuit is arranged inside at least one of the end caps).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 16 and 43 is/are rejected under 35 U.S.C. 103 as being unpatentable over Chen et al. in view of Godbole et al. (US 2009/0160369).

In claim 16, Chen discloses the LED tube lamp according to claim 1; with the exception of explicitly disclosing wherein at least some of the electronic components form a driving circuit electrically connected to the filtering output terminals of the filtering circuit and have two driving output terminals electrically connected to the LED light strip.

However, in the same endeavor, Godbole discloses in Fig. 4, wherein at least some of the electronic components form a driving circuit (110) electrically connected to the filtering output terminals of the filtering circuit (filter 402) and have two driving output terminals (upper and lower terminals coupled to LEDs 112) electrically connected to the LED light strip.

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to combine the teachings in order to provide a control circuit having a filtering element coupling with a driver circuit for driving LED lighting.

In claim 43, Chen discloses the LED tube lamp according to claim 34; with the exception of explicitly disclosing wherein at least some of the electronic components form a driving circuit electrically connected to the filtering output terminals of the filtering circuit and have two driving output terminals electrically connected to the LED light strip.

However, in the same endeavor, Godbole discloses in Fig. 4, wherein at least some of the electronic components form a driving circuit (110) electrically connected to the filtering output terminals of the filtering circuit (filter 402) and have two driving output terminals (upper and lower terminals coupled to LEDs 112) electrically connected to the LED light strip.

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to combine the teachings in order to provide a control circuit having a filtering element coupling with a driver circuit for driving LED lighting.

10. Claim 42 is/are rejected under 35 U.S.C. 103 as being unpatentable over Chen et al. in view CN201515528U.

In claim 42, Chen discloses the LED tube lamp according to claim 34; with the exception of disclosing wherein the capacitor connects between the input terminals of the rectifying circuit.

However, in the same filed of endeavor, CN201515528U discloses wherein the capacitor (C1) connects between the input terminals of the rectifying circuit (rectifier B).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to combine the teachings in order to provide a retrofit LED florescent lamp that is suitable for use with existing florescent light fixture.

Double Patenting

11. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-l.jsp.

12. Claims 1, 20, and 34 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claim 10 (amendment 10/09/18) of copending Application No. 15/888,335 (reference application). Although the claims at issue are not identical, they are not patentably distinct from each other because they essentially required the same claimed limitations.

This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Allowable Subject Matter

13. Claims 2-15, 17-18, 21-33, 35-41, and 44-52 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VIBOL TAN whose telephone number is (571)272-1811. The examiner can normally be reached on M-F 7:00am-3:00pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Taningco can be reached on 571-272-8048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VIBOL TAN/
Primary Examiner, Art Unit 2844

<i>Notice of References Cited</i>	Application/Control No. 16/373,200		Applicant(s)/Patent Under Reexamination JIANG et al.	
	Examiner VIBOL TAN		Art Unit 2844	Page 1 of 1

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	I					
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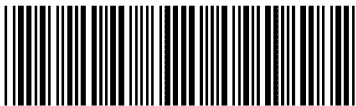
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	O					
	P					
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	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
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	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

CPC - Searched*		
Symbol	Date	Examiner
H05B33/0812 F21V19/003 H05B33/0803 F21K9/278 F21V23/023 F21V23/009 F21K9/27 H05B33/0809 Y02B20/343 H05B33/0845 Y02B20/345 and text	06/04/2019	VTan

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor names search	06/04/2019	VTan
EAST text search	06/04/2019	VTan
Parent application 15/888,335	06/04/2019	VTan

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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PTO/SB/08a (02-18)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
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First Named Inventor	TAO JIANG
Art Unit	2844
Examiner Name	V. Tan
Attorney Docket Number	6246-40007US13

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T./

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First Named Inventor	TAO JIANG	
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Examiner Name		
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47	20110175536	A1	2011-07-21	IRIS OHYAMA INC.
48	20090040415	A1	2009-02-12	SAMSUNG DISPLAY CO., LTD.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844	
Filing Date		
First Named Inventor	TAO JIANG	
Art Unit		
Examiner Name		
Attorney Docket Number	6246-40007US13	

49	20110084627	A1	2011-04-14	THE SLOAN COMPANY, INC. DBA SLOANLED
50	20110309745	A1	2011-12-22	LEDs AMERICA, INC.
51	20130069538	A1	2013-03-21	YU-SHENG SO
52	20130258650	A1	2013-10-03	Streamlight, Inc,
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54	20130135852	A1	2013-05-30	HONG KONG PATENT EXCHANGE LIMITED
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2014045523	WO	A1	2014-03-27	PANASONIC CORP		×
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Examiner Name			
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First Named Inventor	TAO JIANG	
Art Unit		
Examiner Name		
Attorney Docket Number	6246-40007US13	

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First Named Inventor	TAO JIANG	
Art Unit		
Examiner Name		
Attorney Docket Number	6246-40007US13	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Andrew M. Calderon/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Andrew M. Calderon	Registration Number	38093

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	8	"201515528"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/06/04 14:05
S1	191	(current adj limiting adj circuit) same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 15:56
S2	34	(current adj limiting adj circuit) same rectifier same filter same lamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 15:56
S3	411	((("201416790") or ("204539571") or ("2009027847") or ("20080247207") or ("7696700") or ("203661367") or ("201995158") or ("204300731") or ("104948958") or ("102196614") or ("102427632") or ("204756542") or ("201416789") or ("1688186") or ("202425117") or ("103428959") or ("204929364") or ("203039947") or ("11307815") or ("202857106") or ("202759649") or ("2015179652") or ("203801102") or ("201758472") or ("201414240") or ("202841636") or ("104812149") or ("102147053") or ("102147053") or ("102196627") or ("2884777") or ("2012221948") or ("102905429") or ("201339900") or ("102905429") or ("104968114") or ("203193958") or ("204498418") or ("202353882") or ("202190446") or ("103858521") or ("103858521") or ("20140306614") or ("201887988") or ("9155149") or ("201039522") or ("20110181190") or ("204761794") or ("202941026") or ("2819871") or ("2012129129") or ("201726573") or ("102438378") or ("102438378") or ("102984864") or ("101919315") or ("103179764") or ("102984864") or ("2355618A1") or ("202972697") or ("203023957") or ("202972696") or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/04 16:15

		("203225926") or ("202979368") or ("201718093") or ("202979420") or ("104968118") or ("204795685") or ("102905442") or ("20070096661") or ("204131808") or ("202634747") or ("2015513177") or ("102905442") or ("202406349") or ("103403439") or ("2010218811") or ("7276858") or ("102635804") or ("104206021") or ("204836733U") or ("0822579") or ("2532763") or ("202941025") or ("102792778") or ("20140049171") or ("101437342") or ("102792778") or ("102635804") or ("20120161650") or ("103025014") or ("2014216310") or ("102186282") or ("202634835") or ("102480820") or ("203757484") or ("204408691") or ("202652610") or ("201657412") or ("102480820") or ("101626650") or ("103025014") or ("101437342") or ("9155136") or ("202972844") or ("201409247") or ("102186282") or ("8836229") or ("201585165") or ("201255369") or ("202019481") or ("202425143") or ("201003696") or ("204031554") or ("201590932") or ("201547539") or ("202841630") or ("105208750") or ("2015185378") or ("2432297") or ("203942688") or ("203968454") or ("104661392") or ("104968113") or ("203963646") or ("204145835") or ("102711339") or ("102984851") or ("201657413") or ("2011151010") or ("2842974") or ("104994638") or ("104125680")).PN. or (("203590562") or ("203289708") or ("104968112") or ("204291440") or ("102984851") or ("101626650") or ("101176129") or ("101655216") or ("101176129") or ("20120068606") or ("20100096999") or ("20140152185") or ("202535579") or ("100482015") or ("20130278152") or ("201479418U") or ("103269537") or ("20120074854") or ("20080116816") or ("101677482") or ("204836732") or ("103269537") or ("101711066") or ("101998726") or ("8884533") or ("201210760") or ("8072152") or ("7649322") or ("2013219963") or ("2011258589") or ("201199738")).PN.				
S5	4	((light adj emitting adj diode) or LED.u/c.) adj lamp) same terminal same (current adj limiting adj circuit) same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 11:49
S6	13	((light adj emitting adj diode) or LED.u/c.) adj lamp) same terminal same dim\$4 same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2016/02/09 11:53

			IBM_TDB			
S7	392	((("201416790") or ("204539571") or ("2009027847") or ("20080247207") or ("7696700") or ("203661367") or ("201995158") or ("204300731") or ("104948958") or ("102196614") or ("102427632") or ("204756542") or ("201416789") or ("1688186") or ("202425117") or ("103428959") or ("204929364") or ("203039947") or ("202857106") or ("202759649") or ("2015179652") or ("203801102") or ("201758472") or ("20141424") or ("202841636") or ("104812149") or ("102147053") or ("102147053") or ("102196627") or ("2884777Y") or ("2012221948") or ("201339900") or ("102905429") or ("102905429") or ("104968114") or ("203193958") or ("204498418") or ("202353882") or ("202190446") or ("103858521") or ("103858521") or ("201887988") or ("20140306614") or ("9155149") or ("201039522") or ("20110181190") or ("204761794") or ("202941026") or ("2819871") or ("201726573") or ("2012129129") or ("102438378") or ("102438378") or ("102984864") or ("101919315") or ("103179764") or ("102984864") or ("2355618A1") or ("202972697") or ("203023957") or ("202972696") or ("203225926") or ("202979368") or ("201718093") or ("104968118") or ("202979420") or ("204795685") or ("102905442") or ("20070096661") or ("204131808") or ("202634747") or ("2015513177") or ("102905442") or ("202406349") or ("103403439") or ("2010218811") or ("7276858") or ("104206021") or ("204836733") or ("102635804") or ("H822579") or ("202941025") or ("2532763") or ("102792778") or ("20140049171") or ("101437342") or ("102792778") or ("102635804") or ("103025014") or ("20120161650") or ("2014216310") or ("102186282") or ("102480820") or ("202634835") or ("204408691") or ("203757484") or ("202652610") or ("102480820") or ("201657412") or ("101626650") or ("103025014") or ("101437342") or ("9155136") or ("202972844") or ("201409247") or ("102186282") or ("8836229") or ("201585165") or ("201255369") or ("204993953") or ("202019481") or ("201003696") or ("202425143") or ("204031554") or ("201590932") or ("201547539") or ("202841630") or ("105208750") or ("2015185378") or ("203942688") or ("2432297") or ("203968454") or ("104661392") or ("203963646") or ("104968113") or ("204145835") or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 12:07

		("102711339") or ("102984851") or ("201657413") or ("2011151010") or ("2842974") or ("203590562") or ("10412568").PN. or ("104994638") or ("203289708") or ("204291440") or ("104968112") or ("102984851") or ("101176129") or ("101626650") or ("101655216") or ("101176129") or ("20120068606") or ("100482015") or ("20100096999") or ("20140152185") or ("202535579") or ("201479418") or ("20130278152") or ("103269537") or ("20120074854") or ("20080116816") or ("101677482") or ("204836732") or ("103269537") or ("101711066") or ("101998726") or ("2011258589") or ("8884533") or ("201210760") or ("8072152") or ("7649322")).PN.				
S8	308	((("9241378") or ("202353882") or ("20150002039") or ("8648542") or ("103874267") or ("20120256551") or ("202353862") or ("2658347") or ("103139963") or ("20130278161") or ("102057751") or ("102057751") or ("204300731") or ("201844248") or ("103428959") or ("102032484") or ("103139963") or ("103052198") or ("203167342") or ("102907177") or ("202425143") or ("104019378") or ("2012221948") or ("20100079076") or ("102573181") or ("201983229") or ("2496056") or ("102523654") or ("2639987") or ("102523654") or ("102032484") or ("103857138") or ("20110025206") or ("201409247") or ("20140239834") or ("101655216") or ("2288235") or ("1249896") or ("8053995") or ("1171509") or ("8415889") or ("204598355") or ("104968114") or ("102376272") or ("20140117851") or ("2298030B1") or ("101655216") or ("103621179") or ("202005010") or ("204408691") or ("102011953") or ("203313480") or ("202143243") or ("203327323") or ("204761794") or ("103619093") or ("201547539") or ("102164440") or ("104582149") or ("201255369") or ("201898649") or ("204131813") or ("2013012488") or ("103460803") or ("103442502") or ("20150312989") or ("201830522") or ("102164440") or ("204305436") or ("204948416") or ("201242075") or ("102176797") or ("2009147563") or ("2009134946") or ("102176797") or ("201846506") or ("2298030") or ("2013066270") or ("201416790") or ("2014235778") or ("202005039") or ("2774457") or ("2015179652") or ("102635804") or ("102818141") or ("101977468") or ("103748961") or ("104378880") or ("2015525440") or ("203176981") or ("102635804") or ("102413599")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 12:58

S9	97	((light adj emitting adj diode) or LED.u/c.) adj lamp) same bi-pin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 13:22
S10	0	((light adj emitting adj diode) or LED.u/c.) adj lamp) same bi-pin same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 13:23
S11	30	((light adj emitting adj diode) or LED.u/c.) adj lamp) and bi-pin and rectifier and filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 13:24
S12	95	((light adj emitting adj diode) or LED.u/c.) adj lamp) same (terminal or pin) same ((limiting adj circuit) or capacitor) same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/09 14:02
S13	37	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$).did. or (US-5777439-\$ or US-5606224-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$).did.	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2016/02/09 16:17
S14	29	S13 AND ((H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0812 OR H05B33/0806 OR H05B33/0884 OR H05B33/0887 OR H05B33/089 OR H05B37/02 OR Y02B20/386 OR Y02B20/40 OR Y02B20/186 OR Y02B20/342 OR Y02B20/346 OR F21K9/17).CPC.)	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2016/02/09 16:20
S15	45302	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884	US-PGPUB; USPAT; FPRS;	OR	OFF	2016/05/23 08:01

		H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.)	DERWENT			
S16	45423	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/05/23 08:01
S17	2	S16 and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:01
S18	3	rectifier and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:05
S19	4	(filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:06
S20	2	(filament-simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:06
S21	4422	(filament near1 circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:06
S22	688	(filament near1 circuit) same rectifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:07
S23	163	(filament near1 circuit) same rectifier same (capacitor or capacitance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:07
S24	0	(filament near1 circuit) same rectifier	US-PGPUB;	OR	ON	2016/05/23

		same (capacitor or capacitance) same bi-pin	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			08:12
S25	2	(filament near1 circuit) same rectifier same bi-pin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:12
S26	3	(filament near1 circuit) same bi-pin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:14
S27	1	bi-pin and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:14
S28	38	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$).did. or (US-5777439-\$ or US-5606224-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$).did.	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2016/05/23 10:08
S33	6	("20110057572" "20110121756" "20120299501" "20150173138" "20160081147" "9210744").PN.	US-PGPUB; USPAT	OR	OFF	2016/08/10 15:44
S34	6	("20110057572" "20110121756" "20120299501" "20150173138" "20160081147" "9210744").PN.	US-PGPUB; USPAT	OR	OFF	2016/08/10 15:45
S35	1	("9480109").PN.	USPAT; USOCR	OR	OFF	2017/03/13 12:50
S36	320	((("CHEN") near3 ("Zhong")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:37

S37	6	((("ZHANG") near3 ("Yueqiang"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:38
S38	307	((("JIANG") near3 ("Tao"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:38
S39	13	((("YE") near3 ("Qifeng"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:38
S40	634	S36 S37 S38 S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/13 15:39
S41	3	S40 and (bi-pin or bipin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/13 15:39
S42	24	(filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/14 09:15
S43	1090	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.) and (rectifier or rectification or rectifying) and filter\$3 and (current adj limit\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/14 09:49
S44	64	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.) and (rectifier or rectification or rectifying) and filter\$3 and (current adj limit\$3) and (bipin or bi-pin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/14 09:50
S45	31	(filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:01
S46	4	(filament adj simulating) and (bi adj pin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2017/04/27 09:18

			DERWENT; IBM_TDB			
S47	0	(filament adj simulating) and (bipin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:18
S48	4	(filament adj simulating) and (bi-pin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:18
S49	28	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.) and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:35
S50	45	("20100102729" "20160081147" "20150077001" "20140265900" "20120313540" "20120181952" "20150351171" "20110181190" "8648542" "8525427" "20110121756" "20110057572" "20150173138" "20120299501" "9210744" "20130320869" "20110176297" "20100220469" "20120300445" "20150176770" "7380961" "20100096976" "20140239827" "20100181925" "20140035463" "20110149563" "20070127242" "5936599" "8796943" "20160091147" "20160102813" "20160198535" "20160212809" "20160219666" "20160219658" "20160255694" "20160255699" "20160270184" "20160270165" "20160270164" "20160270166" "20160270173" "20160309550" "20160323948" "20160381760").PN.	US-PGPUB; USPAT	OR	OFF	2017/04/27 10:13
S51	6	(bi-pin or (bi adj pin)) same rectifier same filter same (LED.u/c. adj (lamp or module))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 10:30
S52	109	(bi-pin or (bi adj pin)) and rectifier and filter and (LED.u/c. adj (lamp or module))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 10:33
S53	0	(bi-pin or (bi adj pin)) near5 capacitors	US-PGPUB;	OR	ON	2017/04/27

		near5 resistors	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:22
S54	2	(bi-pin or (bi adj pin)) near10 capacitors near5 resistors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 12:23
S55	2	(bi-pin or (bi adj pin)) near10 capacitors near10 resistors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 12:23
S56	25	(bi-pin or (bi adj pin)) and rectifier and filter and (LED.u/c. adj (lamp or module)) and stimul\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 12:24
S57	3	((bi-pin or bipin) near5 current) same pre-heat	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/28 07:55
S58	15	(bi-pin or bipin) same pre-heat	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/28 07:55
S61	4	((("20170038012") or ("9723663") or ("9480955") or ("9609711"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 09:10
S62	0	S61 and (heat adj sink adj sleeve)	US-PGPUB; USPAT	OR	ON	2017/12/01 09:14
S63	0	S61 and (heat adj sink)	US-PGPUB; USPAT	OR	ON	2017/12/01 09:15
S64	2	S61 and (heat adj shrink)	US-PGPUB; USPAT	OR	ON	2017/12/01 09:15
S65	148	((("1276915") or ("1276914") or ("20060186573") or ("204611707") or ("2585026") or ("1296146") or ("100430645") or ("1884907") or ("20160178137") or ("100483017") or ("204114684") or ("20170159894") or ("104266104") or ("206532636") or ("1624378") or ("2485527") or ("202791824") or ("6043600") or ("2733173") or ("1999012186") or ("1010196") or ("5173637") or	USPAT; USOCR	OR	OFF	2017/12/01 09:31

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("1807968") or ("2001012014") or
("4419304") or ("1999012185") or
("1010195") or ("2001515262") or
("2686085") or ("5536998") or
("2466497") or ("1731010") or
("1331834") or ("202852486") or
("203023907") or ("2437951") or
("20170211753") or ("M532547") or
("2839823") or ("1345658") or
("2016086901") or ("201014280") or
("206582592") or ("2016086901") or
("203363984") or ("201969072") or
("202791828") or ("102679185") or
("6078136") or ("104806900") or
("85108264") or ("2267596") or
("0893710") or ("104806900") or
("2001169429") or ("203286341") or
("204099972") or ("2867081") or
("2323262") or ("103542376") or
("2438240") or ("M537638") or
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("M504191") or ("204879545") or
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("201335272") or ("101629711") or
("20170130911") or ("0638977") or
("1496324") or ("200845105") or
("101934878") or ("100347048") or

		("203039330") or ("101934878") or ("203273798") or ("20170089530") or ("9618168") or ("4343844") or ("1079074") or ("2592032") or ("2536896") or ("205489427") or ("204349404") or ("205210338") or ("202691638") or ("1052563") or ("102635803") or ("H715327") or ("102937278") or ("102635803") or ("H515032") or ("2008132208") or ("100462613") or ("2210469") or ("2395131") or ("0052241") or ("5909106") or ("1182337") or ("103871697") or ("2502120") or ("203115615") or ("105972453") or ("205746196") or ("1087207") or ("202769368") or ("104696756") or ("206018314") or ("201207302") or ("3194959") or ("202302887") or ("6791250") or ("102510032") or ("105299343") or ("20040080253") or ("0238200") or ("M383680") or ("201844239") or ("2002151012") or ("203082628") or ("1431960") or ("20160091179") or ("201043297") or ("100408436") or ("101517699") or ("203463970") or ("9625129") or ("203757505") or ("4142592") or ("2012114225") or ("205208189") or ("201513848") or ("0022660") or ("5369225") or ("20120135014") or ("2005345202") or ("103193027") or ("201764378") or ("2262645") or ("201100623") or ("2010287522") or ("2407223") or ("101026908") or ("4282397") or ("2003531395") or ("202769367") or ("2005529815")).PN.				
S66	1376	((("1276915") or ("1276914") or ("20060186573") or ("204611707") or ("2585026") or ("1296146") or ("100430645") or ("1884907") or ("20160178137") or ("100483017") or ("204114684") or ("20170159894") or ("104266104") or ("206532636") or ("1624378") or ("2485527") or ("202791824") or ("6043600") or ("2733173") or ("1999012186") or ("1010196") or ("5173637") or ("20160178138") or ("9447929") or ("100501222") or ("204164958") or ("1807968") or ("2001012014") or ("4419304") or ("1999012185") or ("1010195") or ("2001515262") or ("2686085") or ("5536998") or ("2466497") or ("1731010") or ("1331834") or ("202852486") or ("203023907") or ("2437951") or ("20170211753") or ("M532547") or ("2839823") or ("I345658") or ("2016086901") or ("201014280") or ("206582592") or ("2016086901") or ("203363984") or ("201969072") or ("202791828") or ("102679185") or ("6078136") or ("104806900") or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 09:32

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("103871697") or ("2502120") or
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		("202769368") or ("104696756") or ("206018314") or ("201207302") or ("3194959") or ("202302887") or ("6791250") or ("102510032") or ("105299343") or ("20040080253") or ("0238200") or ("M383680") or ("201844239") or ("2002151012") or ("203082628") or ("1431960") or ("20160091179") or ("201043297") or ("100408436") or ("101517699") or ("203463970") or ("9625129") or ("203757505") or ("4142592") or ("2012114225") or ("205208189") or ("201513848") or ("0022660") or ("5369225") or ("20120135014") or ("2005345202") or ("103193027") or ("201764378") or ("2262645") or ("201100623") or ("2010287522") or ("2407223") or ("101026908") or ("4282397") or ("2003531395") or ("202769367") or ("2005529815")).PN.				
S67	4	((("20170038012") or ("9723662") or ("9480955") or ("9609711"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 10:06
S68	4	((("20170038012") or ("9723662") or ("9480109") or ("9609711"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 10:07
S69	16	(heat adj shrink) near2 cover\$3 near2 (outer adj surface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/01 10:43
S70	88	(heat adj shrink) near5 cover\$3 near5 (outer adj surface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/01 10:48
S71	1	("20170311398").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/05 08:08
S72	1543	(heat adj shrink) near5 cover\$3 near5 tub\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:38
S73	1	(heat adj shrink) near5 cover\$3 near5 (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:39
S74	3	(heat adj shrink) with (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2017/12/05 08:41

			IBM_TDB			
S75	3	(heat adj shrink) same (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:42
S76	1	(heat adj shrink) near10 cover\$3 near10 (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:42
S77	1	(heat adj shrink) near10 (cover\$3 or over) near10 (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:43
S78	3	((("20040189218") or ("20030189829") or ("20130258650")).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/05 09:39
S79	75614	fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/05 09:46
S80	815	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((strip or substrate or board near10 ((power adj supply) or (electronic adj components)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/05 09:49
S81	31	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((strip or substrate or board near10 ((power adj supply) or (electronic adj components))) same caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/05 09:54
S82	110	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((strip or substrate or board near10 ((power adj supply) or (electronic adj components))) same caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 09:54
S83	87	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same (((power adj supply) or (electronic adj components)) near5 rectifiers)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 14:26
S84	1	("9163818").PN.	USPAT;	OR	OFF	2017/12/05

			USOCR			14:35
S85	1	("20140104824").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/05 14:38
S86	107	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) and (((power adj supply) or (electronic adj components)) near5 rectifiers near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 14:47
S87	37	((((power adj supply) or (electronic adj components)) near5 (first adj rectif\$4) near5 (second adj rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 14:54
S88	3	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((first adj rectif\$4) near5 (second adj rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 14:57
S89	1	HUOLIAN-LIN.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 15:03
S90	4	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((first adj rectif\$4) near5 (second adj rectif\$4) near10 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 15:08
S91	9	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((first adj rectif\$4) near10 (second adj rectif\$4) near10 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 15:10
S92	79	(reflective adj film) near5 (inner near2 surface) near3 tube	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 09:14
S93	723	(adhesive adj sheet) same lamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 10:59
S94	200	(adhesive adj sheet) same lamp same	US-PGPUB;	OR	ON	2017/12/06

		(board or substrate or strip)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			11:00
S95	68	(adhesive adj sheet) same lamp same (board or substrate or strip) same tube	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:01
S96	3	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) and (((power adj supply) or (electronic adj components)) near5 ((dual or two) near1 rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:13
S97	50	(((power adj supply) or (electronic adj components)) near5 ((dual or two) near1 rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:14
S98	1	("20140104824").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/06 11:17
S99	2	((("9163818") or ("8749167")).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/06 11:22
S100	2	("8459831" "8749167").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/06 11:22
S101	1	("9163818").URPN.	USPAT	OR	OFF	2017/12/06 11:23
S102	204	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) and (((power adj supply) or (electronic adj components)) near5 rectif\$4 near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:25
S103	284	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) near10 (end adj caps)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:15
S104	13	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) near10 ((end adj caps) near5 (open\$3 or holes or vent))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:16
S105	53	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((end adj caps) near5 (open\$3 or	US-PGPUB; USPAT; USOCR;	OR	ON	2017/12/06 13:18

		holes or vent))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S106	142	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same (caps near5 (open\$3 or holes or vent))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:19
S107	2	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same (caps near5 (open\$3 or holes or vent) near5 (heat adj dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:20
S108	3	fluorescent same (caps near5 (open\$3 or holes or vent) near5 (heat adj dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:22
S109	31	fluorescent and (caps near5 (open\$3 or holes or vent) near5 (heat adj dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:23
S110	18	(LED.u/c. adj strip) near10 (adhesive adj (sheet or tape))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:49
S111	108	(fluorescent or tube) and (caps near5 (openings or holes or vent) near5 (heat near2 dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 07:46
S112	107	(fluorescent or tube) and (caps near5 hot adj melt)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 10:21
S113	106	(filter\$3 adj circuit) near10 (two adj rectif\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 11:45
S114	1	("9447929").PN.	USPAT;	OR	OFF	2017/12/07

			USOCR			13:39
S115	1	("20120051039").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/07 13:55
S116	13455	inductors near5 series bi-pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/07 14:06
S117	61008	inductor near5 series bi-pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 14:06
S118	0	inductor near5 series near2 bi-pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 14:06
S119	0	inductor near5 series near2 pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 14:06
S120	118	(US-20110181190-\$ or US- 20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US- 20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US- 20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US- 20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US- 20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US- 20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US- 20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US- 20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US- 20160219658-\$).did. or (US- 20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US- 20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US- 20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US- 20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US- 20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US- 20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US- 20170231056-\$ or US-20170164434-\$	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2017/12/07 14:20

		or US-20160270162-\$ or US-20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US-20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US-20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US-20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$).did.				
S122	161288	((F21Y2115/10 OR F21K9/27 OR F21K9/00 OR F21K9/23 OR F21K9/235 OR F21K9/237 OR H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0887 OR H05B33/0884 OR H05B33/0812 OR H05B33/083 OR H05B37/02 OR F21V3/0418 OR F21V7/22 OR F21V23/009 OR F21V23/06 OR F21V3/0472 OR F21V29/70 OR F21V29/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/07 14:24
S123	38	("20020176262" "20030102819" "20080302476" "20100220469" "20110084554" "20110084608" "20110084627" "20110148313" "20110228526" "20110260614" "20110279063" "20110309745" "20120212951" "20130127327" "20130147350" "20130223053" "20130230995" "20130293098" "20130335959" "20140055029" "20140192526" "20160219658" "20160270163" "20160270165" "20170067627" "20170159923"	US-PGPUB; USPAT	OR	OFF	2018/02/27 13:35

		"20170196064" "20170211753" "20170219169" "20170311398" "20170347423" "6186649" "8749167" "9497821" "9585221" "9587817" "9689536" "D797323").PN.				
S124	118	(US-20110181190-\$ or US- 20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US- 20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US- 20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US- 20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US- 20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US- 20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US- 20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US- 20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US- 20160219658-\$).did. or (US- 20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US- 20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US- 20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US- 20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US- 20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US- 20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US- 20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US- 20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US- 20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US- 20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US- 20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US- 20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US- 20130009497-\$ or US-20100181932-\$ or US-20160081147-\$).did. or (US- 5777439-\$ or US-5606224-\$ or US- 8896207-\$ or US-9629216-\$ or US- 9629215-\$ or US-9629211-\$ or US- 9609711-\$ or US-8870415-\$ or US- 5815627-\$ or US-9759391-\$ or US- 8956013-\$ or US-7049761-\$ or US- 9775215-\$ or US-9756698-\$ or US- 9277603-\$ or US-9163818-\$ or US- 9835312-\$ or US-9807826-\$ or US- 9625137-\$ or US-3841730-\$ or US- 9781805-\$ or US-8459831-\$ or US- 6246167-\$ or US-9447929-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2018/02/28 09:00

		CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$).did.				
S125	1	((F21Y2115/10 OR F21K9/27 OR F21K9/00 OR F21K9/23 OR F21K9/235 OR F21K9/237 OR H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0887 OR H05B33/0884 OR H05B33/0812 OR H05B33/083 OR H05B37/02 OR F21V3/0418 OR F21V7/22 OR F21V23/009 OR F21V23/06 OR F21V3/0472 OR F21V29/70 OR F21V29/02).CPC.) and ((lamp adj tube) and (four adj filtering adj units))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/28 09:09
S126	54	((F21Y2115/10 OR F21K9/27 OR F21K9/00 OR F21K9/23 OR F21K9/235 OR F21K9/237 OR H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0887 OR H05B33/0884 OR H05B33/0812 OR H05B33/083 OR H05B37/02 OR F21V3/0418 OR F21V7/22 OR F21V23/009 OR F21V23/06 OR F21V3/0472 OR F21V29/70 OR F21V29/02).CPC.) and ((lamp adj tube) and ((heat adj shrink) or (shring adj (tub\$3 or sleeve))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/28 09:11
S129	209	("20020044456" "20020176262" "20030102819" "20030189829" "20030231485" "20040095078" "20040189218" "20050128751" "20050162850" "20050168123" "20050185396" "20050207166" "20050213321" "20060028837" "20070001709" "20070127242" "20070145915" "20070210687" "20070274084" "20080030981" "20080192476" "20080278941" "20080290814" "20080302476" "20090140271" "20090159919" "20090161359" "20100085772" "20100096976" "20100102729" "20100177532" "20100181925" "20100201269" "20100220469" "20100253226" "20100277918" "20110038146" "20110043127" "20110057572" "20110084554" "20110084608" "20110084627" "20110090684" "20110121756" "20110148313" "20110149563" "20110176297" "20110181190" "20110216538" "20110279063"	US-PGPUB; USPAT	OR	OFF	2018/05/18 11:29

"20110309745"	"20120049684"	
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"20120293991"	"20120299501"	
"20120300445"	"20120313540"	
"20120319150"	"20130021809"	
"20130033881"	"20130033888"	
"20130050998"	"20130069538"	
"20130094200"	"20130135852"	
"20130170196"	"20130170245"	
"20130182425"	"20130223053"	
"20130230995"	"20130250565"	
"20130256704"	"20130258650"	
"20130293098"	"20130313983"	
"20130320869"	"20140035463"	
"20140062320"	"20140071667"	
"20140117853"	"20140153231"	
"20140192526"	"20140225519"	
"20140226320"	"20140239827"	
"20140239834"	"20140265900"	
"20150009688"	"20150077001"	
"20150173138"	"20150176770"	
"20150327368"	"20150351171"	
"20150366008"	"20160081147"	
"20160178135"	"20160178137"	
"20160198535"	"20160215936"	
"20160215937"	"20160223180"	
"20160223182"	"20160229621"	
"20160255699"	"20160270163"	
"20160270164"	"20160270165"	
"20160270166"	"20160270173"	
"20160270184"	"20160290566"	
"20160290567"	"20160290598"	
"20160290609"	"20160295706"	
"20160309550"	"20160323948"	
"20160341414"	"20160356472"	
"20160363267"	"20160381746"	
"20160381760"	"20170001793"	
"20170038012"	"20170038013"	
"20170038014"	"20170089521"	
"20170102114"	"20170130911"	
"20170159894"	"20170164434"	
"20170167664"	"20170181239"	
"20170196064"	"20170211753"	
"20170219169"	"20170311398"	
"20170347423"	"20180031186"	
"2454049"	"3294518"	"4156265"
"4647399"	"5575459"	"5921660"
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"6186649"	"6211262"	"6246167"
"6609813"	"6796680"	"6860628"
"6936855"	"7033239"	"7067032"
"7380961"	"7594738"	"8360599"
"8456075"	"8525427"	"8579463"
"8648542"	"8796943"	"9210744"
"9447929"	"9480109"	"9497821"
"9521718"	"9526145"	"9585221"
"9609711"	"9611984"	"9618166"
"9618168"	"9625129"	"9625137"
"9629211"	"9629215"	"9629216"
"9723662"	"9756698"	"9775215"
"9781805"	"9794990"	"9795001"

		"9801240" "9807826" "9820341" "9826585" "9835312" "9845923" "9851073" "9860959" "9867239" "9869431" "9879852" "9883558" "D761216" "D768891" "D797323").PN.				
S130	739	((("2017016399") or ("9885449") or ("20170089521") or ("20160341414") or ("20180031186") or ("9945520") or ("2016086901") or ("3001468") or ("20170211753") or ("2016086901") or ("3001092") or ("9618168") or ("20170089530") or ("20160290598") or ("2016045633") or ("9611984") or ("9625137") or ("9618166") or ("20160290569") or ("20160290568") or ("20160295706") or ("9955587") or ("20160091156") or ("20170167664") or ("9845923") or ("20170038012") or ("9964263") or ("20170130911") or ("20160290566") or ("206409923") or ("20160290567") or ("9851073") or ("201504566") or ("9835312") or ("20160290570") or ("20170311398") or ("9927071") or ("20170219169") or ("106813117") or ("2016070824") or ("9625129") or ("9609711") or ("20160091147") or ("203628310") or ("20160091179") or ("103438378") or ("20160215937") or ("103453498") or ("3146803") or ("2016045630") or ("9869431") or ("20170038014") or ("20170205055") or ("20160290609") or ("2013166920") or ("3179164") or ("205842293") or ("9890936") or ("20160178135") or ("105736971") or ("201031867") or ("204534185") or ("205619064") or ("201425179") or ("105650531") or ("2016086900") or ("20150252958") or ("2016088123") or ("2014048677") or ("205208155") or ("103868028") or ("201506313") or ("9318860") or ("20110235319") or ("2005085705") or ("1721100") or ("9526145") or ("203052540") or ("20160219658") or ("9879852") or ("201107657") or ("102128372") or ("20160215936") or ("2012100392") or ("103868028") or ("9897265") or ("2525131") or ("201506301") or ("203628538") or ("20170102114") or ("9860959") or ("20170142790") or ("20170105263") or ("20120293991") or ("201024609") or ("2016054829") or ("2016070836") or ("201100710") or ("M473476") or ("9883558") or ("102454919") or ("201506314") or ("20170196064") or ("102252177") or ("20170268732") or ("102252177") or ("9695991") or ("20150062890") or ("102128372") or ("201363579") or ("206018332") or ("9903577") or ("201983037") or ("103216753") or ("20170159894") or ("20170321849")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/18 11:38

		or ("20140355272") or ("106151907") or ("20050162101") or ("2986889") or ("2016029871") or ("202302891") or ("20080290814") or ("201448641") or ("104879716") or ("204114661") or ("2007092003") or ("2017071015") or ("2017152801") or ("7067992")).PN. or (("203744142") or ("104806903") or ("M470910") or ("20160123543") or ("M468626") or ("2016058285") or ("20050281030") or ("103423690") or ("106499959") or ("20170184284") or ("104141901") or ("3208519") or ("2012009260") or ("2593714") or ("20120008316") or ("7490957") or ("2007035203") or ("202756939") or ("20170234519") or ("203375312") or ("2015075986") or ("2014194572") or ("105444039") or ("102748626") or ("M378353") or ("204573639") or ("204647890") or ("204573712") or ("204164875") or ("102748626") or ("M545209") or ("9903537") or ("104421712") or ("201447172") or ("M553395") or ("202938111") or ("2013129362") or ("20160178137") or ("204083867") or ("103459921") or ("1618331") or ("206320547") or ("2011072580") or ("203309619") or ("8596813") or ("103644541") or ("104728781") or ("2011157635") or ("202791854") or ("20160176336") or ("204114662") or ("205350916") or ("2004097291") or ("204083883") or ("2011087017") or ("20160270163") or ("107690553") or ("2016086901") or ("104806903") or ("104089209") or ("105972464") or ("106032880") or ("9629216") or ("20150029734") or ("20100320891") or ("2014101251") or ("204573706") or ("20120293996") or ("2014086158") or ("20180124889") or ("2409366") or ("103016984") or ("20160025278") or ("2650588") or ("2999669") or ("101949499") or ("7969076") or ("101949499") or ("203585868")).PN.				
S131	189	S130 and caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:39
S132	77	S130 and ((power adj supply) near5 caps)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:40
S133	108	tub\$4 and ((power adj supply) near5 caps) and (light adj strip)	US-PGPUB; USPAT;	OR	ON	2018/05/18 11:46

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S134	93	tub\$4 same ((power adj supply) near5 caps) same (light adj strip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:46
S135	356	tub\$4 same ((power adj supply) near5 caps) same (end adj cap\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:49
S136	296	tub\$4 same ((power adj supply) near5 caps) same (end adj cap\$1) same (light or lamp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:49
S137	3	((("20100201269") or ("20100277918") or ("20120212951")).PN.	US-PGPUB; USPAT	OR	OFF	2018/05/18 12:02
S138	0	((("20120212951") or ("20100201269") or ("20100277918")).PN.	USPAT; USOCR	OR	OFF	2018/05/21 06:56
S139	3	((("20120212951") or ("20100201269") or ("20100277918")).PN.	US-PGPUB; USPAT	OR	OFF	2018/05/21 06:56
S140	130	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US-20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US-20160219658-\$).did. or (US-20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US-20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US-20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US-20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US-20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US-20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US-	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2018/05/21 07:21

		20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US-20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US-20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US-20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US-20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$ or US-20100277918-\$ or US-20120212951-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$ or US-9955587-\$ or US-9945520-\$).did. or (US-9903577-\$ or US-9927071-\$ or US-9970640-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$ or WO-2009140840-\$).did. or (WO-2009140840-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$ or US-20170089530-\$ or WO-2016074140-\$ or CN-204704694-\$).did.				
S142	27	S140 and ((hole or opening) near5 cap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/21 07:23
S143	130	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2018/05/21 09:23

or US-20110025206-\$ or US-
20100079076-\$ or US-20150223303-\$
or US-20130221867-\$ or US-
20080290814-\$ or US-20070228999-\$
or US-20150351171-\$ or US-
20160091147-\$ or US-20160381760-\$
or US-20160323948-\$ or US-
20160270184-\$ or US-20160270166-\$
or US-20160270165-\$ or US-
20160219658-\$).did. or (US-
20160316533-\$ or US-20120147598-\$
or US-20110121756-\$ or US-
20170105263-\$ or US-20170102114-\$
or US-20170094746-\$ or US-
20160219672-\$ or US-20170311398-\$
or US-20170211753-\$ or US-
20170089530-\$ or US-20050110607-\$
or US-20150334790-\$ or US-
20110309745-\$ or US-20130230995-\$
or US-20110260622-\$ or US-
20090027916-\$ or US-20070133202-\$
or US-20170347423-\$ or US-
20170231056-\$ or US-20170164434-\$
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or US-20160178137-\$ or US-
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or US-20160186969-\$).did. or (US-
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or US-20150198318-\$ or US-
20100290218-\$ or US-20170234519-\$
or US-20100253226-\$ or US-
20160215937-\$ or US-20150049475-\$
or US-20130039051-\$ or US-
20130009497-\$ or US-20100181932-\$
or US-20160081147-\$ or US-
20100277918-\$ or US-20120212951-
\$).did. or (US-5777439-\$ or US-
5606224-\$ or US-8896207-\$ or US-
9629216-\$ or US-9629215-\$ or US-
9629211-\$ or US-9609711-\$ or US-
8870415-\$ or US-5815627-\$ or US-
9759391-\$ or US-8956013-\$ or US-
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9807826-\$ or US-9625137-\$ or US-
3841730-\$ or US-9781805-\$ or US-
8459831-\$ or US-6246167-\$ or US-
9447929-\$ or US-9955587-\$ or US-
9945520-\$).did. or (US-9903577-\$ or
US-9927071-\$ or US-9970640-\$).did. or
(WO-2010054523-\$ or EP-2432297-\$ or
CA-2532763-\$ or CN-203216334-\$ or
CN-104168696-\$ or CN-202261914-\$ or
CN-202852551-\$ or WO-2009140840-
\$).did. or (WO-2009140840-\$).did. or
(US-20120161650-\$ or CN-202190446-
\$ or KR-1040833-\$ or CN-101998726-\$
or CN-201726573-\$ or CN-1688186-\$
or EP-2533607-\$ or US-20120286663-\$
or CN-102711329-\$ or CN-202425143-\$
or DE-102010029100-\$ or US-
20110057572-\$ or US-20160381746-\$

		or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$ or US-20170089530-\$ or WO-2016074140-\$ or CN-204704694-\$).did.				
S144	1	S143 and (pins near10 fuse near10 power adj supply)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/21 09:25
S145	0	S143 and (fuse near10 power adj supply)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/21 09:29
S146	3	((("20100277918") or ("20100253226") or ("20120212951")).PN.	US-PGPUB; USPAT	OR	OFF	2018/08/13 10:16
S147	19	hsia same (light adj emitting diode)	US-PGPUB; USPAT	OR	ON	2018/08/13 14:26
S148	0	hsia.in. same (light adj emitting diode)	US-PGPUB; USPAT	OR	ON	2018/08/13 14:26
S149	2183	hsia.in.	US-PGPUB; USPAT	OR	ON	2018/08/13 14:27
S150	446	hsia.in. and (light adj emitting diode)	US-PGPUB; USPAT	OR	ON	2018/08/13 14:27
S151	21	hsia.in. and (light adj emitting diode) and rectifier and filter	US-PGPUB; USPAT	OR	ON	2018/08/13 14:28
S152	1	("8849167").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:30
S153	1	("8749167").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:31
S154	1	("9277603").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:33
S155	1	("9288867").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:33
S156	2	((("9288867") or ("9163818")).PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:35
S157	132	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US-20160270184-\$ or US-20160270166-\$	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2018/08/13 15:01

or US-20160270165-\$ or US-20160219658-\$).did. or (US-20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US-20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US-20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US-20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US-20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US-20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US-20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US-20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US-20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US-20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US-20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$ or US-20100277918-\$ or US-20120212951-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$ or US-9955587-\$ or US-9945520-\$).did. or (US-9903577-\$ or US-9927071-\$ or US-9970640-\$ or US-8849167-\$ or US-9288867-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$ or WO-2009140840-\$).did. or (WO-2009140840-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$ or US-20170089530-\$ or WO-2016074140-\$ or CN-204704694-\$).did.				
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S158	30	S157 and fuse	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/13 15:01
S159	8	("20100253226" "20100277918" "20150070885" "20170290119" "4059324" "5964518" "9448660" "9864438").PN.	US-PGPUB; USPAT	OR	OFF	2018/10/12 09:23
S160	42107	(H05B33/0812 or F21V19/003 or H05B33/0803 or F21K9/278 or F21V23/023 or F21V23/009 or F21K9/27 or H05B33/0809 or Y02B20/343 or H05B33/0845 or Y02B20/345).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:55
S161	1	S160 and (pins near10 fuse near10 power adj supply)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:55
S162	1565	S160 and (power adj supply) and caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:57
S163	1016	S160 and (power adj supply) and caps and tube	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:57
S164	220	S160 and (power adj supply) and caps and tube and (light adj (strip or panel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:58
S165	254	S160 and (power adj supply) and caps and tube and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:58
S166	194	S160 and (power adj supply) and (end adj caps) and tube and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:59
S172	1	("20180177008").PN.	US-PGPUB;	OR	OFF	2019/02/13

			USPAT; USOCR			13:39
S173	4	"60118450".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2019/02/13 13:39
S174	4	"60118450".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2019/02/13 13:51
S175	4	"60118450".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2019/02/13 13:52
S176	1	("20170089521").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/13 13:53
S177	2	((("10021742") or ("9885449")).PN.	USPAT; USOCR	OR	OFF	2019/04/29 14:50
S178	3	((("10021742") or ("9885449") or ("20180177008")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/29 15:19
S182	4	((("JIAXING") near3 ("SUPER") near3 ("LIGHTING") near3 ("ELECTRIC") near3 ("APPLIANCE") near3 ("CO.,LTD"))).AS,AANM.	USPAT	OR	OFF	2019/06/04 06:56
S183	1	S182 and (lateral adj wall)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 06:57
S184	602	((("JIANG") near3 ("TAO")) OR ((("YE") near3 ("QI FENG")) OR ((("ZHANG") near3 ("YUEQIANG"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/06/04 07:01
S185	6	S184 and (lateral adj wall)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 07:01
S186	133	(US-20110181190-\$ or US- 20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US- 20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US- 20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US- 20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US- 20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US- 20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US- 20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US- 20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US- 20160219658-\$).did. or (US-	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2019/06/04 07:33

		20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US- 20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US- 20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US- 20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US- 20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US- 20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US- 20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US- 20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US- 20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US- 20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US- 20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US- 20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US- 20130009497-\$ or US-20100181932-\$ or US-20160081147-\$ or US- 20100277918-\$ or US-20120212951- \$).did. or (US-5777439-\$ or US- 5606224-\$ or US-8896207-\$ or US- 9629216-\$ or US-9629215-\$ or US- 9629211-\$ or US-9609711-\$ or US- 8870415-\$ or US-5815627-\$ or US- 9759391-\$ or US-8956013-\$ or US- 7049761-\$ or US-9775215-\$ or US- 9756698-\$ or US-9277603-\$ or US- 9163818-\$ or US-9835312-\$ or US- 9807826-\$ or US-9625137-\$ or US- 3841730-\$ or US-9781805-\$ or US- 8459831-\$ or US-6246167-\$ or US- 9447929-\$ or US-9955587-\$ or US- 9945520-\$).did. or (US-9903577-\$ or US-9927071-\$ or US-9970640-\$ or US- 8849167-\$ or US-9288867-\$ or US- 10190732-\$).did. or (WO-2010054523- \$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$ or WO-2009140840-\$).did. or (WO- 2009140840-\$).did. or (US- 20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US- 20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906- \$ or CN-206582587-\$ or KR- 2009118147-\$ or KR-884279-\$ or DE- 202017000504-\$ or DE-202012011550- \$ or US-20170089530-\$ or WO- 2016074140-\$ or CN-204704694- \$).did.				
S187	544	((power adj supply) rectifier) and (end	US-PGPUB;	OR	ON	2019/06/04

		adj caps) and (tube elongat\$2 shell) and (light adj (strip or panel or array))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			07:44
S188	46737	(H05B33/0812 or F21V19/003 or H05B33/0803 or F21K9/278 or F21V23/023 or F21V23/009 or F21K9/27 or H05B33/0809 or Y02B20/343 or H05B33/0845 or Y02B20/345).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 07:45
S189	249	S187 and S188	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 07:46
S190	1	("20100277918").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/04 08:40
S191	1	("20180177008").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/04 09:10
S192	544	((power adj supply) rectifier) and (end adj caps) and (tube elongat\$2 shell) and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 09:20
S193	46737	(H05B33/0812 or F21V19/003 or H05B33/0803 or F21K9/278 or F21V23/023 or F21V23/009 or F21K9/27 or H05B33/0809 or Y02B20/343 or H05B33/0845 or Y02B20/345).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 09:20
S194	39	S192 and S193 and (insulating adj material)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 09:20
S195	26	((power adj supply) rectifier) and ((end adj caps) with (insulating adj material)) and (tube elongat\$2 shell) and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 09:33
S196	66	((((power adj supply) rectifier) with delay) and (tube elongat\$2 shell) and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 09:49

S197	7311	((power adj supply) rectifier) same filter\$3 driv\$3) and (tube elongat\$2 shell) and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 10:12
S198	246	((power adj supply) rectifier) same filter\$3 same driv\$3) and (tube elongat\$2 shell) and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 10:12
S199	9545	((power adj supply) rectifier) same filter\$3 same driv\$3 same light\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 10:21
S200	686	((power adj supply) rectifier) same filter\$3 same (driv\$3 adj circuit\$2) same (LED.u/c. adj light\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 10:23
S201	194	((power adj supply) rectifier) same filter\$3 same (driv\$3 adj circuit\$2) same (LED.u/c. adj light\$3)) and (tube elongated)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 10:24
S202	1	("20090160369").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/04 10:45
S203	5020	((power adj supply) rectifier) same filter\$3 same (capacitor with resistor with parallel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 11:26
S204	1928	((rectifier with filter\$3) same (capacitor with resistor with parallel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 11:27
S205	877	((rectifier with filter\$3) with (capacitor with resistor with parallel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 11:27
S206	628	((rectifier with filter\$3) with (capacitor near10 resistor near10 parallel))	US-PGPUB; USPAT;	OR	ON	2019/06/04 11:27

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S207	24	((rectifier with filter\$3) with (capacitor near10 resistor near10 parallel))) same (LED.u/c. adj light\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 11:28
S208	208	(capacitor near10 resistor near10 parallel) with (input adj terminals) with rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 12:00
S209	56	(capacitor near10 resistor near10 parallel) same (filament-simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 12:09
S210	56	(capacitor near10 resistor near10 parallel) and (filament-simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 12:11
S212	56	(capacitor near10 resistor near10 parallel) and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/04 12:12
S213	6	"54181294".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2019/06/04 12:13
S214	10	("20110057572" "20110121756" "20110181190" "20120299501" "20150173138" "20150231171" "20160081147" "8525427" "8648542" "9210744").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/04 12:14

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S29	1	(bi-pin and (filament adj simulating adj circuit)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/23 10:04
S31	1	(bi-pin and (third adj capacitance)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/23 10:05
S32	1	(bi-pin and (first adj capacitance)).clm.	US-	OR	ON	2016/05/23

			PGPUB; USPAT			10:05
S60	11	(filament-simulating adj circuit).clm.	US- PGPUB; USPAT	OR	ON	2017/04/28 09:12
S127	6	((lamp adj tube) and (heat adj shrink)).clm.	US- PGPUB; USPAT	OR	ON	2018/02/28 09:05
S128	1	((lamp adj tube) and (four adj filtering adj units)).clm.	US- PGPUB; USPAT	OR	ON	2018/02/28 09:08
S167	33	((two adj end adj caps) and (power adj supply) and (light adj strip)).clm.	US- PGPUB; USPAT	OR	ON	2018/10/12 11:38
S168	3	((two adj end adj caps) and (end adj wall adj radius)).clm.	US- PGPUB; USPAT	OR	ON	2018/10/12 11:39
S169	3	((two adj end adj caps) and (power adj supply) and (end adj wall adj radius)).clm.	US- PGPUB; USPAT	OR	ON	2018/10/12 11:40
S170	5	((two adj end adj caps) and (power adj supply) and (lateral adj wall)).clm.	US- PGPUB; USPAT	OR	ON	2018/10/12 11:42
S171	3	((two adj end adj caps) and (power adj supply) and (end adj wall adj radius)).clm.	US- PGPUB; USPAT	OR	ON	2018/10/12 11:44
S179	3	((two adj end adj caps) and (power adj supply) and (end adj wall adj radius)).clm.	US- PGPUB; USPAT	OR	ON	2019/05/15 08:36
S180	4	(bi-pin and (filament adj simulating adj circuit)).clm.	US- PGPUB; USPAT	OR	ON	2019/05/15 08:36
S181	3	((two adj end adj caps) and (power adj supply) and (end adj wall adj radius)).clm.	US- PGPUB; USPAT	OR	ON	2019/05/15 08:37

6/ 4/ 2019 2:16:55 PM
C:\ Users\ vtan\ Documents\ EAST\ Workspaces\ 16373200.wsp

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	4/2/19
First Named Inventor	TAO JIANG
Art Unit	2844
Examiner Name	V. Tan
Attorney Docket Number	6246-40007US13

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8456075	B2	2013-06-04	AURALIGHT INTERNATIONAL AB	

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	1	20050162101	A1	2005-07-28	LEONG SUSAN J. et al.	

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	1	1914458	CN	A	2007-02-14	KONINKL PHILIPS ELECTRONICS NV		×
	2	203686635	CN	U	2014-07-02	JIANGSU TIWIN OPTOELECTRONIC TECHNOLOGY CO LTD		☒
	3	2005122906	JP	A	2005-05-12	HITACHI LIGHTING LTD		☒

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T/

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		16/373,200 - GAU: 2844
Filing Date		
First Named Inventor	TAO JIANG	
Art Unit		
Examiner Name		
Attorney Docket Number	6246-40007US13	

4	2554899	EP	A2	2013-02-06	QBAS TECH CO LTD	☐
5	203162856	CN	U	2013-08-28	RONG SHENG	☒
6	1292930	CN	A	2001-04-25	KONINKL PHILIPS ELECTRONICS NV	☒
7	204083927	CN	U	2015-01-07	LU YING et al.	☒
8	2531425	GB	A	2016-04-20	JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO LTD	☐
9	101228393	CN	A	2008-07-23	LEMNIS LIGHTING IP GMBH [CH]	☒
10	203927469	CN	U	2014-11-05	SUZHOU LINKE LIGHTING TECHNOLOGY CO LTD	☒
11	101092545	CN	A	2007-12-26	HONG BAI	☒
12	204300737	CN	U	2015-04-29	LIU MEICHAN	☒
13	3146803	EP	A1	2017-03-29	JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO LTD	☐
14	104595765	CN	A	2015-05-06	WUXI HYPERION ENERGY CONSERVATIONS CO LTD	☒

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /v. t/

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		16/373,200 - GAU: 2844
Filing Date		
First Named Inventor	TAO JIANG	
Art Unit		
Examiner Name		
Attorney Docket Number	6246-40007US13	

15	103742875	CN	A	2014-04-23	KUANG ZHENGFANG	☒
16	20090118147	KR	A	2009-11-18	NAM KI HO et al,	☒
17	104033772	CN	B	2016-06-08	NINGBO LIAN ELECTRONIC CO LTD	☒
18	203615157	CN	U	2014-05-28	PANASONIC CORP	☒
19	201866575	CN	U	2011-06-15	SHENZHEN XINRUI OPTOELECTRONICS CO LTD	☒
20	203615157	CN	U	2014-05-28	PANASONIC CORP	☒
21	202120982	CN	U	2012-01-18	SHENZHEN JUFEI OPTOELECTRONIC CO LTD	☒
22	201555053	CN	U	2010-08-18	PEILING LIAO	☒
23	201363601	CN	Y	2009-12-16	YINGCHENG RUILU TECHNOLOGY CO	☒
24	202392485	CN	U	2012-08-22	WANG, KANG	☒
25	203068187	CN	U	2013-07-17	HUANG YINGFENG	☒

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844	
Filing Date		
First Named Inventor	TAO JIANG	
Art Unit		
Examiner Name		
Attorney Docket Number	6246-40007US13	

26	202852551	CN	U	2013-04-03	YANTAI GELINRUIDE OPTOELECTRONIC ENGINEERING CO LT	☒
27	203464014	CN	U	2014-03-05	ZHANG WEI et al.	☒
28	103411140	CN	A	2013-11-27	DALIAN THERMALWAY HEAT TRANSFER TECHNOLOGY CO LTD	☒
29	101787273	CN	A	2010-07-28	ANHUI ZERUN OPTOELECTRONIC CO	☒
30	204573700	CN	U	2015-08-19	FUJIAN QUANZHOU SIGOLED LIGHTING TECHN CO LTD	☒
31	102016661	CN	A	2011-04-13	NITTA CORP	☒
32	203240362	CN	U	2013-10-16	SUZHOU MONT LIGHTING CO LTD	☒
33	102121690	CN	A	2011-07-13	NANJING ZHONGYA OPTO ELECTRICAL SCIENCE AND TECHNO	☒
34	1460165	CN	A	2003-12-03	KONINKL PHILIPS ELECTRONICS NV	☒
35	202100985	CN	U	2012-01-04	ZHONGSHAN WANYAO LIGHTING ELECTRICAL APPLIANCES CO	☒
36	102518972	CN	A	2012-06-27	SEEWILL OPTOELECTRONICS TECHNOLOGY CO LTD	☒

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		16/373,200 - GAU: 2844
Filing Date		
First Named Inventor	TAO JIANG	
Art Unit		
Examiner Name		
Attorney Docket Number		6246-40007US13

37	20120055349	KR	A	2012-05-31	AMOLUXE CO LTD	☒
38	2523275	GB	A	2015-08-19	The Wand Lite Company Limited	☐
39	203517629	CN	U	2014-04-02	ZHANG JING	☒
40	202012011550	DE	U1	2013-06-27	BERNDT BENJAMIN	☒
41	201437921	CN	U	2010-04-14	SHENZHEN SEVEN COLOR STAR OPTOELECTRONICS TECHNOLO	☒
42	2012129301	WO	A1	2012-09-27	ELECTRALED INC.	☐
43	204573682	CN	U	2015-08-19	JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO LTD	☒
44	102720901	CN	A	2012-10-10	MENG YANG	☒
45	202281101	CN	U	2012-06-20	LIXIA LIU	☒
46	2013254667	JP	A	2013-12-19	MITSUBISHI ELEC LIGHTING CORP	☒
47	2009111098	WO	A2	2009-09-11	ALTAIR ENG INC	☒

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		16/373,200 - GAU: 2844	
Filing Date			
First Named Inventor	TAO JIANG		
Art Unit			
Examiner Name			
Attorney Docket Number		6246-40007US13	

48	2014117435	WO	A1	2014-08-07	CHEN YUAN HSING YEH CO LTD	☒
49	103822121	CN	A	2014-05-28	LEXTAR ELECTRONICS CORP; LEXTAR ELECTRONICS SUZHOU	☒
50	204573684	CN	U	2015-08-19	JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO LTD	☒

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/VIBOL TAN/	Date Considered	06/04/2019
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844		
Filing Date			
First Named Inventor	TAO JIANG		
Art Unit			
Examiner Name			
Attorney Docket Number	6246-40007US13		

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Andrew M. Calderon/	Date (YYYY-MM-DD)	2019-04-02
Name/Print	Andrew M. Calderon	Registration Number	38093

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/373,200	04/02/2019	TAO JIANG	6246-40007US13

CONFIRMATION NO. 5268

PUBLICATION NOTICE



OC000000109916847

25570
Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

Title:LED TUBE LAMP

Publication No.US-2019-0230756-A1

Publication Date:07/25/2019

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/373,200		Filing Date 04/02/2019		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED - PART I									
		(Column 1)	(Column 2)						
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		52 minus 20 =	* 32		x \$100 =		3200		
INDEPENDENT CLAIMS (37 CFR 1.16(h))		3 minus 3 =	* 0		x \$460 =		0		
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL		3200		
APPLICATION AS AMENDED - PART II									
		(Column 1)	(Column 2)		(Column 3)				
AMENDMENT	09/06/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 90	Minus	** 52	= 38	x \$100 =	3800		
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$460 =	0		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		3800	
		(Column 1)	(Column 2)		(Column 3)				
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =			
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/GERALDINE L STANLEY/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".									
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

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Electronic Patent Application Fee Transmittal

Application Number:	16373200			
Filing Date:	02-Apr-2019			
Title of Invention:	LED TUBE LAMP			
First Named Inventor/Applicant Name:	TAO JIANG			
Filer:	Andrew Michael Calderon/Sara Aragon			
Attorney Docket Number:	6246-40007US13			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	38	100	3800
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				3800

Electronic Acknowledgement Receipt

EFS ID:	37085954
Application Number:	16373200
International Application Number:	
Confirmation Number:	5268
Title of Invention:	LED TUBE LAMP
First Named Inventor/Applicant Name:	TAO JIANG
Customer Number:	25570
Filer:	Andrew Michael Calderon/Sara Aragon
Filer Authorized By:	Andrew Michael Calderon
Attorney Docket Number:	6246-40007US13
Receipt Date:	06-SEP-2019
Filing Date:	02-APR-2019
Time Stamp:	15:42:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$3800
RAM confirmation Number	E201996F42463025
Deposit Account	502478
Authorized User	Sara Aragon

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	6246-40007US13_Amendment toOfficeAction_09-06-19.pdf	1675452	no	38
			fe6f9e1ed95f317a94d19431754fd059b6986395		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30362	no	2
			7e71e4a5997163421d437267c505a98f6b1c0f82		
Warnings:					
Information:					
Total Files Size (in bytes):			1705814		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s)	: Tao Jiang	Group Art Unit: 2844
Appl. No.	: 16/373,200	Examiner: VIBOL TAN
Filed	: April 2, 2019	Confirmation No.: 5268
For	: LED TUBE LAMP	

AMENDMENT UNDER 37 C.F.R. §1.111

U.S. Patent and Trademark Office
Customer Service Window, Mail Stop AMENDMENT
Randolph Building
401 Dulany Street
Alexandria, VA 22314

In response to the Office Action dated June 7, 2019, please amend the above-identified application as follows.

A listing of claims begins on page 2.

Remarks begin on page 19.

If extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. §1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to Deposit Account No. 50-2478.

AMENDMENT TO CLAIMS

Please **AMEND** the claims as follows.

A copy of all pending claims (including status identifiers) is provided below.

1. (Cancelled)

2. (Currently Amended) An LED tube lamp, comprising:~~The LED tube lamp according to claim 1,~~

a tube having two ends;

an LED light strip attached to an inner circumferential surface of the tube;

a plurality of LED light sources mounted on the LED light strip;

a power supply module electrically connecting to the LED light strip and configured to drive the plurality of LED light sources; and

a first end cap and second end cap respectively attached at the two ends of the tube, each of the first and second end caps comprising a lateral wall and an end wall, the lateral wall substantially being coaxial with the tube and connecting to the tube, the end wall substantially being perpendicular to an axial direction of the lateral wall and connecting to an end of the lateral wall away from the tube,

wherein the power supply module comprises a printed circuit board and a plurality of electronic components mounted on the printed circuit board, the printed circuit board comprises a first surface and a second surface opposite to and substantially parallel to the first surface, and the first surface and the second surface of the printed circuit board are substantially parallel with the axial direction of the lateral wall;

wherein at least some of the plurality of electronic components comprise a rectifying circuit having at least two input terminals and configured to rectify signal receiving from the at least two input terminals, at least one of the plurality of electronic components comprises a filtering circuit electrically connecting to the rectifying circuit,

wherein the plurality of electronic components comprise a resistor which is positioned closest to the end wall of the first end cap and connecting to one of the input terminals of the rectifying circuit;

wherein the end wall comprises a first portion made of an insulating material.

3. (Original) The LED tube lamp according to claim 2, wherein each of the end caps comprises at least one conductive pin connected to the first portion, and the resistor is electrically connected between the conductive pin and one of the input terminals of the rectifying circuit.
4. (Original) The LED tube lamp according to claim 3, wherein the end wall further comprises a second portion made of metal.
5. (Original) The LED tube lamp according to claim 2, wherein each of the end caps comprises two conductive pins connected to the first portion, and the resistor is electrically connected between the two conductive pins.
6. (Original) The LED tube lamp according to claim 2, wherein the end wall comprises at least one opening.
7. (Original) The LED tube lamp according to claim 6, wherein the resistor is positioned closest to the opening.
8. (Original) The LED tube lamp according to claim 6, wherein the LED tube lamp further comprises a heat-dissipating element being extended between the opening on the end wall of the first end cap and the power supply module.
9. (Original) The LED tube lamp according to claim 8, wherein an end of the heat-dissipating element is mounted on the printed circuit board.
10. (Original) The LED tube lamp according to claim 9, wherein a part of the heat-dissipating element is disposed in the opening on the end wall of the first end cap.
11. (Original) The LED tube lamp according to claim 10, wherein each of the two end caps comprises at least one pin, the pin is a hollow conductive pin and the power supply is coupled to the pin.

12. (Original) The LED tube lamp according to claim 10, wherein the heat-dissipating element is made of metal.

13. (Currently Amended) The LED tube lamp according to claim [[1]] 2, wherein at least some of the electronic components form a first circuit electrically connected between the rectifying circuit and the filtering circuit and causes a delay before the LED tube lamp lights up.

14. (Original) The LED tube lamp according to claim 13, wherein the electronic components forming the first circuit comprises a capacitor configured to be charged when an AC driving signal is provided to the LED tube lamp and cause the LED tube lamp to conduct when voltage of the capacitor exceeds a threshold trigger voltage.

15. (Original) The LED tube lamp according to claim 13, wherein the LED tube lamp is delayed to light up by 0.1 to 3 seconds.

16. (Cancelled)

17. (Currently Amended) The LED tube lamp according to claim [[16]] 2, wherein at least some of the electronic components form a driving circuit electrically connected to filtering output terminals of the filtering circuit and have two driving output terminals electrically connected to the LED light strip; and further wherein the electronic components forming the driving circuit comprise comprises:

a controller;

a diode, having an anode electrically connected to one of the filtering output terminals and one of the driving output terminals;

a switch, having a first terminal coupled to the other one of the filtering output terminals, a second terminal electrically connected to a cathode of the diode, and a control terminal coupled to the controller, wherein the switch is turned on or off in response to a signal received from the controller; and

an inductor, having an end electrically connected to the second terminal of the switch, and another end electrically connected to the LED light strip via the other one of the driving output terminals.

18. (Original) The LED tube lamp according to claim 17, wherein the electronic components forming the driving circuit further comprise:

a capacitor, electrically connected between the driving output terminals.

19. (Cancelled)

20. (Cancelled)

21. (Currently Amended) An LED tube lamp, comprising: The LED tube lamp according to claim 20,

a tube having two ends;

an LED light strip attached to an inner circumferential surface of the tube;

a plurality of LED light sources mounted on the LED light strip;

a power supply module electrically connecting to the LED light strip and configured to drive the plurality of LED light sources; and

a first end cap and second end cap respectively attached at the two ends of the tube, each of the first and second end caps comprising a lateral wall and an end wall, the lateral wall substantially being coaxial with the tube and connecting to the tube, the end wall substantially being perpendicular to an axial direction of the lateral wall and connecting to an end of the lateral wall away from the tube,

wherein the power supply module comprises a printed circuit board and a plurality of electronic components mounted on the printed circuit board, the printed circuit board comprises a first surface and a second surface opposite to and substantially parallel to the first surface, and the first surface and the second surface of the printed circuit board are substantially parallel with the axial direction of the lateral wall;

wherein at least some of the electronic components comprise a rectifying circuit having at least two input terminals and configured to rectify signal receiving from the input terminals, at least one of the electronic components comprises a filtering circuit electrically connecting to the rectifying circuit,

wherein the filtering circuit comprises an inductor, the inductor is positioned closest to the end wall of one of the first and second end caps and connect to one of the input terminals of the rectifying circuit;

wherein the end wall comprises a first portion made of an insulating material.

22. (Original) The LED tube lamp according to claim 21, wherein the end wall further comprises a second portion made of metal.

23. (Original) The LED tube lamp according to claim 21, wherein the end wall comprises at least one opening.

24. (Original) The LED tube lamp according to claim 23, wherein the inductor is positioned closest to the opening.

25. (Original) The LED tube lamp according to claim 23, wherein the LED tube lamp further comprises a heat-dissipating element being extended between the opening on the end wall of one of the first and second end caps and the power supply module.

26. (Original) The LED tube lamp according to claim 25, wherein an end of the heat-dissipating element is mounted on the printed circuit board.

27. (Original) The LED tube lamp according to claim 26, wherein a part of the heat-dissipating element is disposed in the opening on the end wall of the first end cap.

28. (Original) The LED tube lamp according to claim 27, wherein each of the two end caps comprises at least one pin, the pin is a hollow conductive pin and the power supply is coupled to the pin.

29. (Original) The LED tube lamp according to claim 27, wherein the heat-dissipating element is made of metal.

30. (Currently Amended) The LED tube lamp according to claim ~~[[20]]~~21, wherein at least some of the electronic components comprises a first circuit electrically connected between the rectifying circuit and the filtering circuit and causes the LED tube lamp to delay in lighting up.

31. (Original) The LED tube lamp according to claim 30, wherein the electronic components forming the first circuit comprise a bidirectional triode thyristor having a first terminal and a control terminal receiving signal output from the rectifying circuit, and a second terminal electrically connected to the filtering circuit and the LED light strip.

32. (Currently Amended) The LED tube lamp according to claim [[20]]21, wherein at least some of the electronic components comprise a capacitor electrically connected between the two input terminals of the rectifying circuit and a resistor electrically connected to the capacitor in parallel.

33. (Original) The LED tube lamp according to claim 32, wherein the capacitor and the resistor form a filament-simulating circuit.

34. (Cancelled)

35. (Currently Amended) An LED tube lamp, comprising:~~The LED tube lamp according to claim 34,~~

a tube having two ends;

an LED light strip attached to an inner circumferential surface of the tube;

a plurality of LED light sources mounted on the LED light strip;

a power supply module electrically connecting to the LED light strip and configured to drive the plurality of LED light sources; and

a first end cap and second end cap respectively attached at two ends of the tube, each of the first and second end caps comprising a lateral wall and an end wall, the lateral wall substantially being coaxial with the tube and connecting to the tube, the end wall substantially being perpendicular to an axial direction of the lateral wall and connecting to an end of the lateral wall away from the tube,

wherein the power supply module comprises a printed circuit board and a plurality of electronic components mounted on the printed circuit board, the printed circuit board comprises a first surface and a second surface opposite to and substantially parallel to the first surface, and the first surface and the second surface of the printed circuit board are substantially parallel with the axial direction of the lateral wall;

wherein at least some of the electronic components comprise a rectifying circuit having at least two input terminals and configured to rectify signal receiving from the input terminals, at least one of the electronic components comprises a filtering circuit electrically connected to the rectifying circuit,

wherein the plurality of electronic components comprise a capacitor which is positioned closest to the end wall of the first end cap;

wherein the end wall comprises a first portion made of an insulating material.

36. (Original) The LED tube lamp according to claim 35, wherein the end wall comprises at least one opening.

37. (Original) The LED tube lamp according to claim 36, wherein the LED tube lamp further comprises a heat-dissipating element being extended between the opening on the end wall of the first end cap and the power supply module.

38. (Original) The LED tube lamp according to claim 37, wherein an end of the heat-dissipating element is mounted on the printed circuit board.

39. (Original) The LED tube lamp according to claim 38, wherein a part of the heat-dissipating element is disposed in the opening on the end wall of the first end cap.

40. (Original) The LED tube lamp according to claim 39, wherein each of the two end caps comprises at least one pin, the pin is a hollow conductive pin and the power supply is coupled to the pin.

41. (Original) The LED tube lamp according to claim 39, wherein the heat-dissipating element is made of metal.

42. (Currently Amended) The LED tube lamp according to claim ~~[[34]]~~35, wherein the capacitor connects between the input terminals of the rectifying circuit.

43. (Canceled)

44. (Currently Amended) The LED tube lamp according to claim ~~[[43]]~~ 35, wherein at least some of the electronic components form a driving circuit electrically connected to filtering output terminals of the filtering circuit and having two driving output terminals electrically connecting to the LED light strip, and further wherein ~~the electronic components forming the driving circuit comprise~~ comprises:

a controller;

a diode, having an anode electrically connected to one of the filtering output terminals and one of the driving output terminals;

a switch, having a first terminal coupled to the other one of the filtering output terminals, a second terminal electrically connected to a cathode of the diode, and a control terminal coupled to the controller, wherein the switch is turned on or off in response to a signal received from the controller; and

an inductor, having an end electrically connected to the second terminal of the switch, and another end electrically connected to the LED light strip via the other one of the driving output terminals.

45. (Currently Amended) The LED tube lamp according to claim ~~[[34]]~~35, wherein at least some of the electronic components form a mode switching circuit configured to determine to perform a first driving mode or a second driving mode according to frequency of an AC driving signal received by the rectifying circuit.

46. (Currently Amended) The LED tube lamp according to claim ~~[[34]]~~35, wherein at least some of the electronic components form a protection circuit configured to determine whether to enter a protection state and limit, restrain or clamp down on a level of a signal flow through the power supply module under the protection state.

47. (Currently Amended) The LED tube lamp according to claim 46, wherein the protection circuit comprises:

a switch circuit, configured to be turned on or off in response to a current detection signal indicating whether a current of the LED tube lamp exceeds ~~[[an]]~~ a reference value.

48. (Original) The LED tube lamp according to claim 47, wherein the switch circuit is coupled to at least part of the LED light sources in parallel.

49. (Original) The LED tube lamp according to claim 47, wherein the switch circuit is a thyristor.

50. (Original) The LED tube lamp according to claim 47, wherein at least one of the electronic components is a diode having an anode coupled to a first terminal of the switch circuit.

51. (Original) The LED tube lamp according to claim 47, wherein at least some of the electronic components comprises:

a resistor; and

a bipolar junction transistor, coupled to the switch circuit and receiving the current detection signal via the resistor,

wherein the bipolar junction transistor is turned on or off in response to the current detection signal and cause a voltage level of the collector of the bipolar junction transistor being shifted correspondingly,

wherein the voltage level of the collector of the bipolar junction transistor affects on/off state of the switch circuit.

52. (Original) The LED tube lamp according to claim 51, wherein when the protection circuit does not enter the protection state, the switch circuit and the bipolar junction transistor are in a cutoff state.

53. (New) The LED tube lamp according to claim 5, wherein the rectifying circuit comprises:

a first full-wave bridge rectifying circuit, having two input terminals electrically connected to the two conductive pins of one of the end caps, respectively, and having a positive output terminal and a negative output terminal; and

a second full-wave bridge rectifying circuit, having two input terminals electrically connected to the two conductive pins of the other one of the end caps, respectively, and having a positive output terminal and a negative output terminal,

wherein the positive output terminals of the first and the second full-wave bridge rectifying circuits are electrically connected to each other, and the negative output terminals of

the first and the second full-wave bridge rectifying circuits are electrically connected to each other.

54. (New) The LED tube lamp according to claim 53, wherein the filtering circuit comprises:

- an inductor, having an end electrically connected to the positive output terminals of the first and the second full-wave bridge rectifying circuits, and another end that is a filtering output terminal of the filtering circuit;

- a first capacitor, having an end electrically connected to the end of the inductor, and the other end electrically connected to the negative output terminals of the first and the second full-wave bridge rectifying circuits; and

- a second capacitor, having an end electrically connected to the other end of the inductor, and another end that is another filtering output terminal of the filtering circuit.

55. (New) The LED tube lamp according to claim 5, wherein the rectifying circuit comprises:

- a full-wave bridge rectifying circuit, having two input terminals electrically connected to the two conductive pins of one of the end caps, respectively, and having a positive output terminal and a negative output terminal; and

- a half-wave bridge rectifying circuit, having an input terminal electrically connected to one of the two conductive pins of the other one of the end caps, and having a positive output terminal and a negative output terminal,

- wherein the positive output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit are electrically connected to each other, and the negative output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit are electrically connected to each other.

56. (New) The LED tube lamp according to claim 55, wherein the filtering circuit comprises:

- a first capacitor, having an end electrically connected to the positive output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit, and another end electrically connected to the negative output terminals of the full-wave bridge rectifying and the half-wave rectifying circuit.

57. (New) The LED tube lamp according to claim 56, wherein the filtering circuit further comprises:

an inductor, having an end electrically connected to the end of the first capacitor, and another end that is a filtering output terminal of the filtering circuit; and

a second capacitor, having an end electrically connected to the other end of the inductor, and another end that is another filtering output terminal of the filtering circuit.

58. (New) The LED tube lamp according to claim 56, wherein the filtering circuit further comprises:

an EMI-reducing capacitor, coupled between the two conductive pins of one of the end caps.

59. (New) The LED tube lamp according to claim 17, wherein the driving circuit comprises:

a controller;

a diode, having an anode electrically connected to one of the filtering output terminals and one of the driving output terminals;

a switch, having a first terminal coupled to a cathode of the diode, a second terminal coupled to the other one of the filtering output terminals, and a control terminal coupled to the controller, wherein the switch is turned on or off in response to a signal received from the controller; and

an inductor, having an end electrically connected to the first terminal of the switch and the anode of the diode, and another end electrically connected to the LED light strip via the other one of the driving output terminals.

60. (New) The LED tube lamp according to claim 59, wherein at least some of the electronic components form a mode switching circuit configured to determine to perform a first driving mode or a second driving mode according to frequency of an AC driving signal received by the rectifying circuit.

61. (New) The LED tube lamp according to claim 60, wherein the mode switching circuit allows the driving circuit transforming a signal received from the filtering output terminals into a driving signal for driving the LED light sources when performing the first driving mode.

62. (New) The LED tube lamp according to claim 61, wherein the mode switching circuit makes the driving circuit stop working in conducting the signal received from the filtering output terminals when performing the second driving mode.

63. (New) The LED tube lamp according to claim 60, wherein the mode switching circuit makes at least a component of the driving circuit being bypassed when performing the second driving mode.

64. (New) The LED tube lamp according to claim 63, wherein the component of the driving circuit being bypassed comprises at least one of the inductor and the switch.

65. (New) The LED tube lamp according to claim 63, wherein when the mode switching circuit determines on performing the second driving mode, the mode switching circuit conducts current in a conductive path, so that one of the driving output terminals is coupled to one of the filtering output terminals by bypassing the component.

66. (New) The LED tube lamp according to claim 65, wherein the mode switching circuit conducting current in the conductive path makes the driving circuit stop working.

67. (New) The LED tube lamp according to claim 60, wherein the mode switching circuit performs the first driving mode when receiving a low-frequency AC driving signal and performs the second driving mode when receiving a high-frequency AC driving signal.

68. (New) The LED tube lamp according to claim 67, wherein the low-frequency AC driving signal has frequency lower than 10 kHz, and the high-frequency AC driving signal has frequency higher than 10 kHz.

69. (New) The LED tube lamp according to claim 68, wherein the low-frequency AC driving signal has frequency of 50 Hz or 60 Hz.

70. (New) The LED tube lamp according to claim 68, wherein the high-frequency AC driving signal has frequency of 20 kHz to 50 kHz.

71. (New) The LED tube lamp according to claim 5, wherein at least some of the electronic components form a filament-simulating circuit configured to conduct current during a preheat process when the LED tube lamp is powered by a ballast.

72. (New) The LED tube lamp according to claim 71, wherein the filament-simulating circuit comprises:

a capacitor, coupled between the two conductive pins of one of the end caps.

73. (New) The LED tube lamp according to claim 72, wherein the filament-simulating circuit further comprises:

a second resistor, coupled to the capacitor in parallel.

74. (New) The LED tube lamp according to claim 21, wherein at least some of the electronic components form a driving circuit electrically connected to filtering output terminals of the filtering circuit and having two driving output terminals electrically connecting to the LED light strip.

75. (New) The LED tube lamp according to claim 74, wherein the driving circuit comprises:

a controller;

a diode, having an anode electrically connected to one of the filtering output terminals and one of the driving output terminals;

a switch, having a first terminal coupled to another one of the filtering output terminals, a second terminal electrically connected to a cathode of the diode, and a control terminal coupled to the controller, wherein the switch is turned on or off in response to a signal received from the controller; and

an inductor, having an end electrically connected to the second terminal of the switch, and another end electrically connected to the LED light strip via the other one of the driving output terminals.

76. (New) The LED tube lamp according to claim 21, wherein at least some of the electronic components form a protection circuit configured to determine whether to enter a protection state

and limit, restrain or clamp down on a level of a signal flow through the power supply module under the protection state.

77. (New) The LED tube lamp according to claim 76, wherein the protection circuit comprises:
a switch circuit, configured to be turned on or off in response to a current detection signal indicating whether a current of the LED tube lamp exceeds a reference value.

78. (New) The LED tube lamp according to claim 77, wherein the switch circuit is coupled to at least part of the LED light sources in parallel.

79. (New) The LED tube lamp according to claim 77, wherein the switch circuit is a thyristor.

80. (New) The LED tube lamp according to claim 77, wherein at least one of the electronic components is a diode having an anode coupled to a first terminal of the switch circuit.

81. (New) The LED tube lamp according to claim 77, wherein at least some of the electronic components comprises:

a resistor; and

a bipolar junction transistor, coupled to the switch circuit and receiving the current detection signal via the resistor,

wherein the bipolar junction transistor is turned on or off in response to the current detection signal and causes a voltage level of a collector of the bipolar junction transistor to be shifted correspondingly,

wherein the voltage level of the collector of the bipolar junction transistor affects on/off state of the switch circuit.

82. (New) The LED tube lamp according to claim 81, wherein when the protection circuit does not enter the protection state, the switch circuit and the bipolar junction transistor are in a cutoff state.

83. (New) The LED tube lamp according to claim 35, wherein the rectifying circuit comprises:

a first full-wave bridge rectifying circuit, having two input terminals electrically connected to two conductive pins of one of the first and the second end caps, respectively, and having a positive output terminal and a negative output terminal; and

a second full-wave bridge rectifying circuit, having two input terminals electrically connected to two conductive pins of the other one of the first and the second end caps, respectively, and having a positive output terminal and a negative output terminal,

wherein the positive output terminals of the first and the second full-wave bridge rectifying circuits are electrically connected to each other, and the negative output terminals of the first and the second full-wave bridge rectifying circuits are electrically connected to each other.

84. (New) The LED tube lamp according to claim 83, wherein the filtering circuit comprises:

an inductor, having an end electrically connected to the positive output terminals of the first and the second full-wave bridge rectifying circuits, and another end that is a filtering output terminal of the filtering circuit;

a first capacitor, having an end electrically connected to the other end of the inductor, and another end that is another filtering output terminal of the filtering circuit.

85. (New) The LED tube lamp according to claim 84, wherein the filtering circuit further comprises:

a second capacitor, having an end electrically connected to the end of the inductor, and another end electrically connected to the negative output terminals of the first and the second full-wave bridge rectifying circuits.

86. (New) The LED tube lamp according to claim 84, wherein the filtering circuit further comprises:

an EMI-reducing capacitor, coupled between the two conductive pins of one of the first and the second end caps.

87. (New) The LED tube lamp according to claim 35, wherein the rectifying circuit comprises:

a full-wave bridge rectifying circuit, having two input terminals electrically connected to two conductive pins of one of the first and the second end caps, respectively, and having a positive output terminal and a negative output terminal; and

a half-wave bridge rectifying circuit, having an input terminal electrically connected to one of two conductive pins of the other one of the first and the second end caps, and having a positive output terminal and a negative output terminal,

wherein the positive output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit are electrically connected to each other, and the negative output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit are electrically connected to each other.

88. (New) The LED tube lamp according to claim 87, wherein the filtering circuit comprises:

a first capacitor, having an end electrically connected to the positive output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit, and another end electrically connected to the negative output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit.

89. (New) The LED tube lamp according to claim 88, wherein the filtering circuit further comprises:

an EMI-reducing capacitor, coupled between the two conductive pins of one of the first and the second end caps.

90. (New) The LED tube lamp according to claim 35, wherein at least some of the electronic components form a filament-simulating circuit configured to conduct current during a preheat process when the LED tube lamp is powered by a ballast.

91. (New) The LED tube lamp according to claim 90, wherein the filament-simulating circuit comprises:

a second capacitor, coupled between the two conductive pins of one of the first and the second end caps.

92. (New) The LED tube lamp according to claim 91, wherein the filament-simulating circuit further comprises:

a resistor, coupled to the second capacitor in parallel.

93. (New) The LED tube lamp according to claim 87, wherein the rectifying circuit further comprises a current-limiting capacitor coupled to one of the input terminals of the full-wave bridge rectifying circuit in series.

94. (NEW) The LED tube lamp according to claim 2, wherein the tube is a glass tube.

95. (NEW) The LED tube lamp according to claim 21, wherein the tube is a glass tube.

96. (NEW) The LED tube lamp according to claim 35, wherein the tube is a glass tube.

REMARKS

Claims 2-15, 17-18, 21-33, 35-42 and 44-96 are currently pending in the application. By this amendment, claims 2, 13, 17, 21, 30, 32, 35, 42 and 44-47 are amended and claims 53-96 are added for the Examiner's consideration. Claims 1, 16, 19, 20, 34 and 43 are cancelled without prejudice or disclaimer. Reconsideration of the rejected claims in view of the above amendments and the following remarks is respectfully requested.

Amendments to the Claims

In this Amendment, Applicant has amended and cancelled claims in this application to facilitate expeditious prosecution of the application. Applicant is not conceding that the subject matter encompassed by the claims prior to this Amendment is unpatentable over the art cited by the Examiner. Applicant respectfully reserves the right to pursue claims in one or more continuing applications, including claims capturing the subject matter encompassed by the claims prior to this Amendment and additional claims.

Interview Request

In the event that the Examiner does not withdraw the rejections set forth in the Office Action in view of the currently presented amendments and remarks, in the interest of compact prosecution, Applicant kindly requests a follow-up Interview to discuss any pending issues that may be resolved to place the Application in condition for allowance.

Allowable Subject Matter

The Applicant thanks for the Examiner's indication that claims 2-15, 17, 18, 21-33, 35-41, and 44-52 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The Applicant amends the claims in accordance with the Examiner's indication. Consequently, allowance of claims 2-15, 17-18, 21-33, 35-42 and 44-96 is respectfully requested.

Claim 2 is written into independent form, i.e. reciting all limitations of claim 1. In addition, claim 2 is amended to recite “an LED light strip *attached to an inner circumferential surface of the tube*” instead of “an LED light strip *disposed inside the tube*.” Support for the amendments can be found at least in FIG. 17 as well as paragraph [0244] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

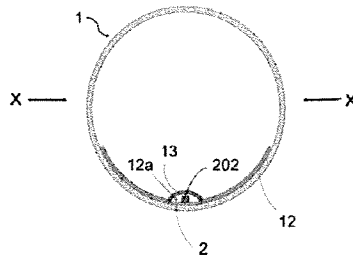


Fig. 17

[0244] Referring to FIG. 17, the inner circumferential surface of the lamp tube 1 may also be provided or bonded with a reflective film 12. *The reflective film 12 is provided around the LED light sources 202, and occupies a portion of an area of the inner circumferential surface of the lamp tube 1 arranged along the circumferential direction thereof. As shown in FIG. 17, the reflective film 12 is disposed at two sides of the LED light strip 2 extending along a circumferential direction of the lamp tube 1.* The LED light strip 2 is basically in a middle position of the lamp tube 1 and between the two reflective films 12. The reflective film 12, when viewed by a person looking at the lamp tube from the side (in the X-direction shown in FIG. 17), serves to block the LED light sources 202, so that the person does not directly see the LED light sources 202, thereby reducing the visual graininess effect. On the other hand, that the lights emitted from the LED light sources 202 are reflected by the reflective film 12 facilitates the divergence angle control of the LED tube lamp, so that more lights illuminate toward directions without the reflective film 12, such that the LED tube lamp has higher energy efficiency when providing the same level of illumination performance.. (Emphasis Added)

Claim 13 is amended to depend upon claim 2. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 17 is amended to recite all recitation of claim 16 and to depend upon claim 2. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 21 is written into independent form, i.e. reciting all limitations of claim 20. In addition, claim 21 is amended to recite “an LED light strip *attached to an inner circumferential surface of the tube*” instead of “an LED light strip *disposed inside the tube.*” Support for the amendments can be found at least in FIG. 17 as well as paragraph [0244] of publication of the subject application, US 2019/0230756 A1, duplicated above. No new matter is introduced. Entry of the amendments is respectfully requested.

Claims 30 and 32 are respectively amended to depend upon claim 21. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 35 is written into independent form, i.e. reciting all limitations of claim 34. In addition, claim 21 is amended to recite “an LED light strip *attached to an inner circumferential surface of the tube*” instead of “an LED light strip *disposed inside the tube.*” Support for the amendments can be found at least in FIG. 17 as well as paragraph [0244] of publication of the subject application, US 2019/0230756 A1, duplicated above. No new matter is introduced. Entry of the amendments is respectfully requested.

Claims 42 and 45-46 are respectively amended to depend upon claim 35. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 44 is amended to recite all recitation of claim 43 and to depend upon claim 35. No new matter is introduced. Entry of the amendments is respectfully requested.

35 U.S.C. §112 Rejection

Claim 1 was rejected under 35 U.S.C. 112(b) as being indefinite. The antecedent basis rejection is moot due to cancellation of claim 1. Claim 19 was rejected under 35 U.S.C. 112(a) as failing to comply with the written description requirement. The rejection is moot due to the cancellation of claim 19.

35 U.S.C. §102 Rejection

Claims 1, 20 and 34 were rejected under 35 U.S.C. 102(a)(1) as being anticipated by Chen et al. (US 2010/0277918). The Applicant does not agree with the rejection. However, in the

interest of advancing prosecution of the subject application, claims 1, 20 and 34 are cancelled without prejudice or disclaimer. Accordingly, withdrawal of the rejection is respectfully requested.

35 U.S.C. §103 Rejection

Claims 16 and 43 were rejected under 35 U.S.C. 103 as being unpatentable over Chen et al. in view of Godbole et al. (US 2009/010369). The Applicant does not agree with the rejection. However, in the interest of advancing prosecution of the subject application, claims 16 and 43 are cancelled without prejudice or disclaimer. Accordingly, withdrawal of the rejection is respectfully requested.

Double Patenting

Claims 1, 20 and 34 were provisionally rejected on the ground of non-statutory double patenting as being unpatentable over claim 10 of (amendment 10/09/18) of co-pending Application No. 15/888,335. As mentioned above, claims 1, 20 and 34 are cancelled. Withdrawal of the rejection is respectfully requested.

New claims

Claims 53-96 are added by this amendment and are believed to be allowable for the following reasons. Claims 53-96 each depend from one of the allowable base claims, and are distinguishable from the applied art for at least the same reasons as the respective base claim. Moreover, claims 53-96 recite additional combinations of features that are not taught by the applied art.

Claim 53 depends upon claim 5 and additionally recites “the rectifying circuit comprises:

- a first full-wave bridge rectifying circuit, having two input terminals electrically connected to the two conductive pins of one of the end caps, respectively, and having a positive output terminal and a negative output terminal; and

- a second full-wave bridge rectifying circuit, having two input terminal electrically connected to the two conductive pins of the other

one of the end caps, respectively, and having a positive output terminal and a negative output terminal,

wherein the positive output terminals of the first and the second full-wave bridge rectifying circuits are electrically connected to each other, and the negative output terminals of the first and the second full-wave bridge rectifying circuits are electrically connected to each other.”

Support for the additional recitations can be found at least in FIGs. 49E and 50A, as well as paragraphs [0301, 0317] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

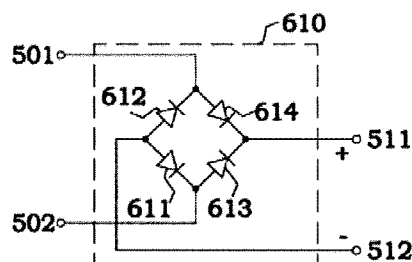


Fig. 50A

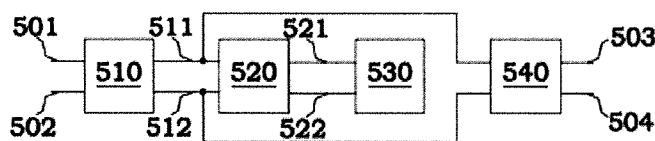


Fig. 49E

[0301] FIG. 50A is a schematic diagram of a rectifying circuit according to an embodiment of the present invention. Referring to FIG. 50A, *rectifying circuit 610 includes rectifying diodes 611, 612, 613, and 614, configured to full-wave rectify a received signal.* Diode 611 has an anode connected to output terminal 512, and a cathode connected to pin 502. Diode 612 has an anode connected to output terminal 512, and a cathode connected to pin 501. Diode 613 has an anode connected to pin 502, and a cathode connected to output terminal 511. Diode 614 has an anode connected to pin 501, and a cathode connected to output terminal 511. (Emphasis Added)

[0317] *Rectifying circuits 510 and 540 in embodiments shown in FIG. 49E may each comprise any one of the rectifying circuits in FIGS. 50A-D, and terminal adapter circuit 541 in FIGS. 50C-D may be omitted without*

altering the rectification function needed in an LED tube lamp. When rectifying circuits 510 and 540 each comprise a half-wave rectifier circuit described in FIGS. 50B-D, during a received AC signal's positive or negative half cycle, the AC signal may be input from one of rectifying circuits 510 and 540, and later output from the other rectifying circuit 510 or 540. Further, when rectifying circuits 510 and 540 each comprise the rectifying circuit described in FIG. 50C or 50D, or when they comprise the rectifying circuits in FIGS. 50C and 50D respectively, only one terminal adapter circuit 541 may be needed for functions of voltage/current regulation or limiting, types of protection, current/voltage regulation, etc. within rectifying circuits 510 and 540, omitting another terminal adapter circuit 541 within rectifying circuit 510 or 540. (Emphasis Added)

Claim 54 depends upon claim 5 and additionally recites “the filtering circuit comprises:

an inductor, having an end electrically connected to the positive output terminals of the first and the second full-wave bridge rectifying circuits, and the other end regarding as one of the filtering output terminals;

a first capacitor, having an end electrically connected to the end of the inductor, and the other end electrically connected to the negative output terminals of the first and the second full-wave bridge rectifying circuits; and

a second capacitor, having an end electrically connected to the other end of the inductor, and the other end regarding as the other one of the filtering output terminals.”

Support for the additional recitations can be found at least in FIGs. 49E and 52C, as well as paragraph [0329] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

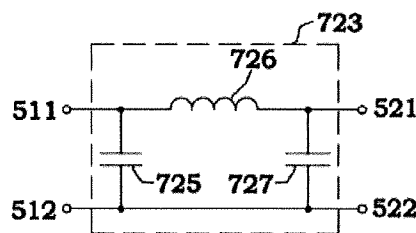


Fig. 52C

[0329] FIG. 52C is a schematic diagram of the filtering unit according to an embodiment of the present invention. Referring to FIG. 52C, *filtering unit 723 comprises a pi filter circuit including a capacitor 725, an inductor 726, and a capacitor 727*. As is well known, a pi filter circuit looks like the

symbol π in its shape or structure. Capacitor 725 has an end connected to output terminal 511 and coupled to output terminal 521 through inductor 726, and has another end connected to output terminals 512 and 522. Inductor 726 is coupled between output terminals 511 and 521. Capacitor 727 has an end connected to output terminal 521 and coupled to output terminal 511 through inductor 726, and has another end connected to output terminals 512 and 522. (Emphasis Added)

Claim 55 depends upon claim 5 and additionally recites “

a full-wave bridge rectifying circuit, having two input terminals electrically connected to the two conductive pins of one of the end caps, respectively, and having a positive output terminal and a negative output terminal; and

a half-wave bridge rectifying circuit, having an input terminal electrically connected to one of the two conductive pins of the other one of the end caps, and having a positive output terminal and a negative output terminal,

wherein the positive output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit are electrically connected to each other, and the negative output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit are electrically connected to each other.”

Support for the additional recitations can be found at least in FIGs. 49E and 50B, as well as paragraphs [0305, 0317] of publication of the subject application, US 2019/0230756 A1, duplicated above and below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0305] FIG. 50B is a schematic diagram of a rectifying circuit according to an embodiment of the present invention. Referring to FIG. 50B, *rectifying circuit 710 includes rectifying diodes 711 and 712, configured to half-wave rectify a received signal.* Diode 711 has an anode connected to pin 502, and a cathode connected to output terminal 511. Diode 712 has an anode connected to output terminal 511, and a cathode connected to pin 501. Output terminal 512 may be omitted or grounded depending on actual applications. minal adapter circuit 541 within rectifying circuit 510 or 540. (Emphasis Added)

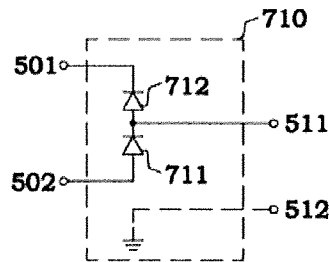


Fig. 50B

Claim 56 depends upon claim 55 and additionally recites “the filtering circuit comprises:

a first capacitor, having an end electrically connected to the positive output terminals of the full-wave bridge rectifying circuit and the half-wave bridge rectifying circuit, and the other end electrically connected to the negative output terminals of the first and the second full-wave bridge rectifying circuits.”

Support for the additional recitations can be found at least in FIGs. 49E and 50B, as well as paragraphs [0328] of publication of the subject application, US 2019/0230756 A1, duplicated above and below. No new matter is introduced. Entry of the amendments is respectfully requested.

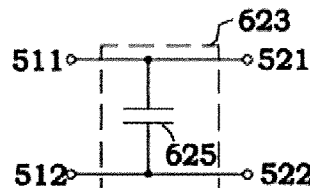


Fig. 52B

[0328] FIG. 52B is a schematic diagram of the filtering unit according to an embodiment of the present invention. Referring to FIG. 52B, filtering unit 623 includes a capacitor 625 having an end coupled to output terminal 511 and a filtering output terminal 521 and another end coupled to output terminal 512 and a filtering output terminal 522, and is configured to low-pass filter a rectified signal from output terminals 511 and 512, so as to filter out high-frequency components of the rectified signal and thereby output a filtered signal at output terminals 521 and 522.

Claim 57 depends upon claim 56 and additionally recites “the filtering circuit comprises:

an inductor, having an end electrically connected to the end of the first capacitor, and the other end regarding as one of the filtering output terminals; and

a second capacitor, having an end electrically connected to the other end of the inductor, and the other end regarding as the other one of the filtering output terminals.

The additional recitations of claim 57 and claim 56 are the same as that of claim 54. Support can be found at least in FIGs. 49E and 52C, as well as paragraph [0329] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 58 depends upon claim 56 and additionally recites “the filtering circuit comprises an EMI-reducing capacitor, coupled between the two conductive pins of one of the end caps.”

Support for the additional recitations can be found at least in FIG. 52E, as well as paragraphs [0337] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0337] FIG. 52E is a schematic diagram of the filtering unit according to an embodiment of the present invention. Referring to FIG. 52E, in this embodiment filtering unit 925 is disposed in rectifying circuit 610 as shown in FIG. 50A, and is configured for reducing the EMI (Electromagnetic interference) caused by rectifying circuit 610 and/or other circuits. In this embodiment, *filtering unit 925 includes an EMI-reducing capacitor coupled between pin 501 and the anode of rectifying diode 613, and also between pin 502 and the anode of rectifying diode 614, to reduce the EMI associated with the positive half cycle of the AC driving signal received at pins 501 and 502.* The EMI-reducing capacitor of filtering unit 925 is also coupled between pin 501 and the cathode of rectifying diode 611, and between pin 502 and the cathode of rectifying diode 612, to reduce the EMI associated with the negative half cycle of the AC driving signal received at pins 501 and 502. In some embodiments, rectifying circuit 610 comprises a full-wave bridge rectifier circuit including four rectifying diodes 611, 612, 613, and 614. The full-wave bridge rectifier circuit has a first filtering node connecting an anode and a cathode respectively of two diodes 613 and 611 of the four rectifying diodes 611, 612, 613, and 614, and a second filtering node connecting an anode and a cathode respectively of the other two diodes 614 and 612 of the four rectifying diodes 611, 612, 613, and 614. And the EMI-reducing capacitor of the filtering unit 925 is coupled between the first filtering node and the second filtering node. (Emphasis Added)

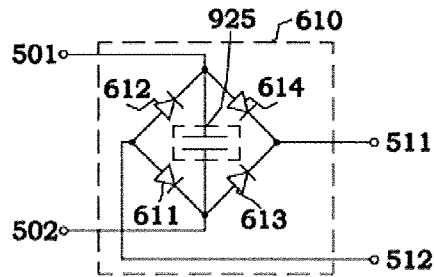


Fig. 52E

Claim 59 depends upon claim 17 and additionally recites “wherein the driving circuit comprises:

- a controller;
- a diode, having an anode electrically connected to one of the filtering output terminals and one of the driving output terminals;
- a switch, having a first terminal coupled to a cathode of the diode, a second terminal coupled to the other one of the filtering output terminals, and a control terminal coupled to the controller, wherein the switch is turned on or off in response to a signal received from the controller; and
- an inductor, having an end electrically connected to the first terminal of the switch and the anode of the diode, and another end electrically connected to the LED light strip via the other one of the driving output terminals.”

Support for the additional recitations can be found at least in FIG. 54E, as well as paragraphs [0386-87] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0386] FIG. 54E is a schematic diagram of the driving circuit according to an embodiment of the present invention. Referring to FIG. 54E, a driving circuit 1830 in this embodiment comprises a buck DC-to-DC converter circuit having a controller 1831 and a converter circuit. The converter circuit includes an inductor 1832, a diode 1833 for “freewheeling” of current, a capacitor 1834, and a switch 1835. Driving circuit 1830 is coupled to filtering output terminals 521 and 522 to receive and then convert a filtered signal into a driving signal for driving an LED module connected between driving output terminals 1521 and 1522.

[0387] Switch 1835 has a first terminal coupled to filtering output terminal 521, a second terminal coupled to the cathode of freewheeling diode 1833, and a control terminal coupled to controller 1831 to receive a control signal from controller 1831 for controlling current conduction or cutoff between the first and second terminals of switch 1835. The anode of freewheeling diode 1833 is connected to filtering output terminal 522 and

driving output terminal 1522. Inductor 1832 has an end connected to the second terminal of switch 1835, and another end connected to driving output terminal 1521. Capacitor 1834 is coupled between driving output terminals 1521 and 1522, to stabilize the voltage between driving output terminals 1521 and 1522.

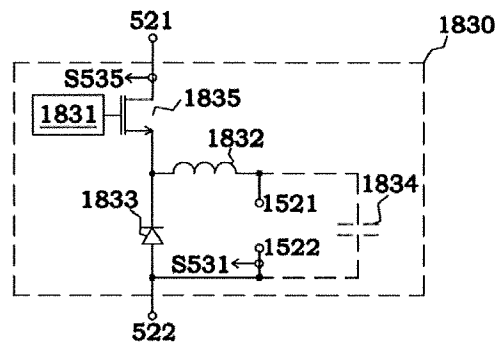


Fig. 54E

Claim 60 depends upon claim 59 and additionally recites “wherein at least some of the electronic components form a mode switching circuit configured to determine to perform a first driving mode or a second driving mode according to frequency of an AC driving signal received by the rectifying circuit.” Claim 61 depends upon claim 60 and additionally recites “the mode switching circuit allows the driving circuit transforming a signal received from the filtering output terminals into a driving signal for driving the LED light sources when performing the first driving mode.” Claim 62 depends upon claim 61 and additionally recites “wherein the mode switching circuit makes the driving circuit stop working in conducting the signal received from the filtering output terminals when performing the second driving mode.” Claim 63 depends upon 60 and additionally recites “wherein the mode switching circuit makes at least a component of the driving circuit being bypassed when performing the second driving mode.” Claim 64 depends upon claim 63 and additionally recites “wherein the component of the driving circuit being bypassed comprises at least one of the inductor and the switch.” Claim 65 depends upon claim 63 and additionally recites “wherein when the mode switching circuit determines on performing the second driving mode, the mode switching circuit conducts current in a conductive path, so that one of the driving output terminals is coupled to one of the filtering output terminals by bypassing the component.”

Support for the additional recitations can be found at least in FIG. 57A, as well as paragraph [0425] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0425] FIG. 57A is a block diagram of a power supply module in an LED lamp according to an embodiment of the present invention. Compared to FIG. 54A, the embodiment of FIG. 57A includes rectifying circuits 510 and 540, a filtering circuit 520, and an LED driving module 530 including a driving circuit 1530 and an LED module 630, and further includes a mode switching circuit 580. *Mode switching circuit 580 is coupled to at least one of filtering output terminals 521 and 522 and at least one of driving output terminals 1521 and 1522, for determining whether to perform a first driving mode or a second driving mode, as according to a frequency of the external driving signal. In the first driving mode, a filtered signal from filtering circuit 520 is input into driving circuit 1530, while in the second driving mode the filtered signal bypasses at least a component of driving circuit 1530, making driving circuit 1530 stop working in conducting the filtered signal, allowing the filtered signal to (directly) reach and drive LED module 630. The bypassed component(s) of driving circuit 1530 may include an inductor or a switch, which when bypassed makes driving circuit 1530 unable to transfer and/or convert power, and then stop working in conducting the filtered signal. If driving circuit 1530 includes a capacitor, the capacitor can still be used to filter out ripples of the filtered signal in order to stabilize the voltage across the LED module. When mode switching circuit 580 determines on performing the first driving mode, allowing the filtered signal to be input to driving circuit 1530, driving circuit 1530 then transforms the filtered signal into a driving signal for driving LED module 630 to emit light. On the other hand, when mode switching circuit 580 determines on performing the second driving mode, allowing the filtered signal to bypass driving circuit 1530 to reach LED module 630, filtering circuit 520 becomes in effect a driving circuit of LED module 630. Then filtering circuit 520 provides the filtered signal as a driving signal for the LED module for driving the LED module to emit light. (Emphasis Added)*

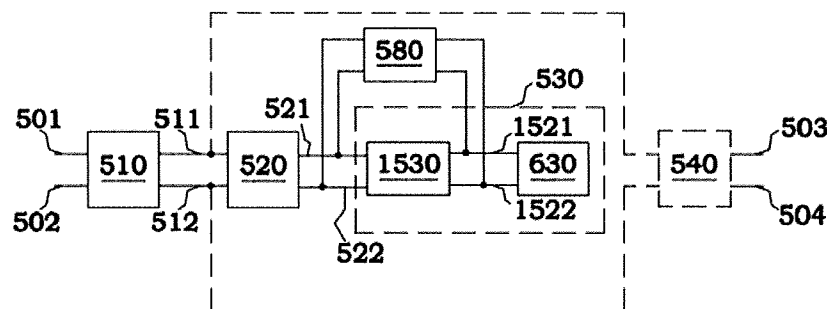


Fig. 57A

Claim 66 depends upon claim 65 and additionally recites “wherein the mode switching circuit conducting current in the conductive path makes the driving circuit stop working.”

Support for the additional recitations can be found at least in paragraph [0429] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0429] *When mode switching circuit 680 determines on performing a second driving mode, mode switch 681 conducts current in the second conductive path through terminals 683 and 684 and the first conductive path through terminals 683 and 685 is in a cutoff state. In this case, driving output terminal 1522 is coupled to filtering output terminal 522, and therefore driving circuit 1630 stops working, and a filtered signal is input through filtering output terminals 521 and 522 to driving output terminals 1521 and 1522 for driving the LED module, while bypassing inductor 1632 and switch 1635 in driving circuit 1630.*

Claim 67 depends upon claim 60 and additionally recites “wherein the mode switching circuit performs the first driving mode when receiving a low-frequency AC driving signal and performs the second driving mode when receiving a high-frequency AC driving signal.” Claim 68 depends upon claim 57 and additionally recites “wherein the low-frequency AC driving signal has frequency lower than 10 kHz, and the high-frequency AC driving signal has frequency higher than 10 kHz.” Claim 69 recites “wherein the low-frequency AC driving signal has frequency of 50 Hz or 60 Hz.” Claim 70 recites “wherein the high-frequency AC driving signal has frequency of 20 kHz to 50 kHz.”

Support for the additional recitations can be found at least in paragraph [0292] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0292] FIG. 49A is a block diagram of a power supply module 250 in an LED tube lamp according to an embodiment of the present invention. Referring to FIG. 49A, an *AC power supply 508 is used to supply an AC supply signal, and may be an AC powerline with a voltage rating, for example, in 100-277 volts and a frequency rating, for example, of 50 or 60 Hz.* A lamp driving circuit 505 receives and then converts the AC supply signal into an AC driving signal as an external driving signal. *Lamp driving circuit 505 may be for example an electronic ballast used to convert the AC powerline into a high-frequency high-voltage AC driving signal.* Common types of electronic ballast include instant-start ballast, program-start or rapid-start ballast, etc., which may all be applicable to the LED tube lamp of the present invention. The voltage of the AC driving signal is likely higher than 300 volts, and is in some embodiments in the range of about 400-700

volts. *The frequency of the AC driving signal is likely higher than 10 k Hz, and is in some embodiments in the range of about 20 k-50 k Hz.* The LED tube lamp 500 receives an external driving signal and is thus driven to emit light. In one embodiment, the external driving signal comprises the AC driving signal from lamp driving circuit 505. In one embodiment, LED tube lamp 500 is in a driving environment in which it is power-supplied at its one end cap having two conductive pins 501 and 502, which are coupled to lamp driving circuit 505 to receive the AC driving signal. The two conductive pins 501 and 502 may be electrically connected to, either directly or indirectly, the lamp driving circuit 505.

Claim 71 depends upon claim 5 and additionally recites “wherein at least some of the electronic components form a filament-simulating circuit configured to conduct current during a preheat process when the LED tube lamp is powered by a ballast.”

Support for the additional recitations can be found at least in paragraphs [0292, 494, 501, 502] of publication of the subject application, US 2019/0230756 A1, duplicated above and below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0494] In an initial stage upon the lamp driving circuit having filament detection function being activated, the lamp driving circuit will determine whether the filaments of the lamp operate normally or are in an abnormal condition of short-circuit or open-circuit. When determining the abnormal condition of the filaments, the lamp driving circuit stops operating and enters a protection state. In order to avoid that the lamp driving circuit erroneously determines the LED tube lamp to be abnormal due to the LED tube lamp having no filament, *the two filament-simulating circuits 1560 simulate the operation of actual filaments of a fluorescent tube to have the lamp driving circuit enter into a normal state to start the LED lamp normally.*

[0501] FIG. 60F is a schematic block diagram including a filament-simulating circuit according to an embodiment of the present invention. In the present embodiment, the filament-simulating circuit 1860 replaces the terminal adapter circuit 541 of the rectifying circuit 810 shown in FIG. 50C, which is adopted as the rectifying circuit 510 or/and 540 in the LED lamp. For example, the filament-simulating circuit 1860 of the present embodiment has both of filament simulating and terminal adapting functions. An impedance of the filament-simulating circuit 1860 has a negative temperature coefficient (NTC), i.e., the impedance at a higher temperature is lower than that at a lower temperature. In the present embodiment, the filament-simulating circuit 1860 comprises two NTC resistors 1863 and 1864 connected in series and coupled to the filament simulating terminals 1661 and 1662. Referring to FIG. 60A, the filament simulating terminals 1661 and 1662 are respectively coupled to the pins 501

and 502 or/and the pins 503 and 504. The half-wave node 819 of the rectifying unit 815 in the rectifying circuit 810 is coupled to a connection node of the NTC resistors 1863 and 1864.

[0502] When the lamp driving circuit outputs the detection signal for detecting the state of the filament, the detection signal passes the NTC resistors 1863 and 1864 so that the lamp driving circuit determines that the filaments of the LED lamp are normal. *The impedance of the serially connected NTC resistors 1863 and 1864 is gradually decreased with the gradually increasing of temperature due to the detection signal or a preheat process.* When the lamp driving circuit enters into the normal state to start the LED lamp normally, the impedance of the serially connected NTC resistors 1863 and 1864 is decreased to a relative low value and so the power consumption of the filament simulation circuit 1860 is lower.

Claim 72 depends upon claim 71 and additionally recites “wherein the filament-simulating circuit comprises a capacitor, coupled between the two conductive pins of one of the end caps.”

Claim 73 depends upon claim 72 and additionally recites “wherein the filament-simulating circuit further comprises a resistor, coupled to the capacitor in parallel.”

Support for the additional recitations can be found at least in FIG. 60B and paragraph [0495] of publication of the subject application, US 2019/0230756 A1, duplicated below. No new matter is introduced. Entry of the amendments is respectfully requested.

[0495] FIG. 60B is a schematic diagram of a filament-simulating circuit according to an embodiment of the present invention. The filament-simulating circuit comprises a capacitor 1663 and a resistor 1665 connected in parallel, and two ends of the capacitor 1663 and two ends of the resistor 1665 are respectively coupled to filament simulating terminals 1661 and 1662. Referring to FIG. 60A, the filament simulating terminals 1661 and 1662 of the two filament simulating 1660 are respectively coupled to the pins 501 and 502 and the pins 503 and 504. During the filament detection process, the lamp driving circuit outputs a detection signal to detect the state of the filaments. The detection signal passes the capacitor 1663 and the resistor 1665 and so the lamp driving circuit determines that the filaments of the LED lamp are normal.

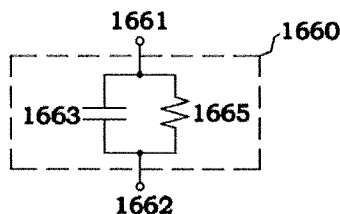


Fig. 60B

Claim 74 depends upon claim 5 and additionally recites “wherein at least some of the electronic components form a driving circuit electrically connected to filtering output terminals of the filtering circuit and having two driving output terminals electrically connecting to the LED light strip.” Support for the additional recitation can be found at least at originally filed claim 16. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 75 depends upon claim 74 and its additional recitation is the same as that of claim 59. Support for the additional recitations can be found at least in FIG. 54E, as well as paragraphs [0386-87] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 77 depends upon claim 76 and additionally recites “wherein the protection circuit comprises a switch circuit, configured to be turned on or off in response to a current detection signal indicating whether a current of the LED tube lamp exceeds a reference value.” Support for the additional recitation can be found at least at originally filed claim 47. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 78 depends upon claim 77 and additionally recites “wherein the switch circuit is coupled to at least part of the LED light sources in parallel.” Support for the additional recitation can be found at least at originally filed claim 48. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 79 depends upon claim 77 and additionally recites “wherein the switch circuit is a thyristor.” Support for the additional recitation can be found at least at originally filed claim 49. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 80 depends upon claim 77 and additionally recites “wherein at least one of the electronic components is a diode having an anode coupled to a first terminal of the switch circuit.” Support for the additional recitation can be found at least at originally filed claim 50. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 81 depends upon claim 77 and additionally recites “wherein at least some of the electronic components comprise:

- a resistor; and
- a bipolar junction transistor, coupled to the switch circuit and receiving the current detection signal via the resistor,

wherein the bipolar junction transistor is turned on or off in response to the current detection signal and cause a voltage level of the collector of the bipolar junction transistor being shifted correspondingly, wherein the voltage level of the collector of the bipolar junction transistor affects on/off state of the switch circuit.”

Support for the additional recitation can be found at least at originally filed claim 51. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 82 depends upon claim 81 and additionally recites “wherein when the protection circuit does not enter the protection state, the switch circuit and the bipolar junction transistor are in a cutoff state.” Support for the additional recitation can be found at least at originally filed claim 52. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 83 depends upon claim 35 and its additional recitations are the same as that of claim 53. Support for the additional recitations can be found at least in FIGs. 49E and 50A, as well as paragraphs [0301, 0317] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 84 depends upon claim 83 and claim 85 depends upon claim 84. Additional recitations of claims 84-85 is the same as that of claim 54. Support for the additional recitations can be found at least in FIGs. 49E and 52C, as well as paragraph [0329] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 86 depends upon claim 84 and its additional recitations are the same as that of claim 58. Support for the additional recitations can be found at least in FIG. 52E, as well as paragraphs [0337] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 87 depends upon claim 35 and its additional recitations are the same as that of claim 55. Support for the additional recitations can be found at least in FIGs. 49E and 50B, as well as paragraphs [0305, 0317] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 88 depends upon claim 87 and its additional recitations are the same as that of claim 56. Support for the additional recitations can be found at least in FIGs. 49E and 50B, as

well as paragraphs [0328] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 89 depends upon claim 88 and its additional recitations are the same as that of claim 58. Support for the additional recitations can be found at least in FIG. 52E, as well as paragraphs [0337] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 90 depends upon claim 35 and its additional recitations are the same as that of claim 71. Support for the additional recitations can be found at least in FIG. 60B and paragraph [0495] of publication of the subject application, US 2019/0230756 A1, which is not re-addressed here.

Claim 91 depends upon claim 90 and its recitations are the same as that of claim 72. Claim 92 depends upon claim 91 and its recitations are the same as that of claim 73. Support for the additional recitations can be found at least in FIG. 60B and paragraph [0495] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Claim 93 depends upon claim 87 and additionally recites “wherein the rectifying circuit further comprises a current-limiting capacitor coupled to one of the input terminals of the full-wave bridge rectifying circuit in series.” Support for the additional recitations can be found at least in FIG. 65 and paragraph [0556] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

[0556] The power supply circuit 258 may further comprise a filtering unit 824 as mentioned above in FIG. 52D. The filtering unit 824 is connected between one pin of one of the two end caps and the rectifying circuit 810. In some embodiments, the filtering unit 824 comprises an inductor 828. The rectifying circuit 810 comprises a current-limiting capacitor 642 and a rectifying unit 815 connected with the current-limiting capacitor 642. The filtering circuit 623 comprises a capacitor 625. In this embodiment, the power supply circuit 258 may comprise four filtering units 824 as shown in FIG. 65 (the filtering unit 824 is similar to that in FIG. 52D). The filtering units 824 are, respectively, connected between the four pins 301 and the corresponding rectifying circuits 810. Specifically, the pins 301 on the left side are connected to the rectifying circuit 810 on the left side of the FIG. 65 while the pins 301 on the right side are connected to the

rectifying circuit 810 on the right side of the FIG. 65. In one embodiment, the filtering units 824 each comprise an inductor 828. And each of the rectifying circuits 810 comprises a current-limiting capacitor 642 and a half-wave rectifying unit 815 connected with the current-limiting capacitor 642. It should be noted that current-limiting capacitor 642 can be a part of, or be regarded as belonging to, a terminal adapter circuit 541 introduced in FIGS. 50C and 50D and also marked in FIG. 65. And each of the four inductors 828 in FIG. 65 can alternatively be regarded as a part of the terminal adapter circuit 541 in FIG. 65, since it's mentioned above that a terminal adapter circuit 541 (as in FIGS. 50C and 50D) may comprise a resistor, a capacitor, an inductor, or any combination thereof.

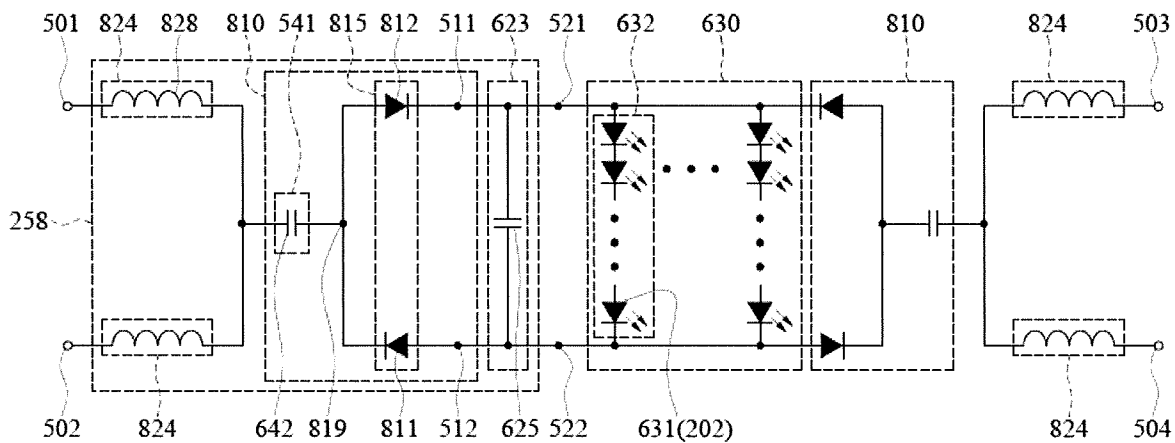


Fig. 65

Claims 94, 95 and 96 depend upon claim 2, 21 and 35 respectively and additionally recite “wherein the tube is a glass tube.” Support for the additional recitations can be found at least in paragraph [0194]-[0204] of publication of the subject application, US 2019/0230756 A1. No new matter is introduced. Entry of the amendments is respectfully requested.

Accordingly, based on above discussion, no new matter is introduced. Entry of the above amendments is respectfully requested.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant submits that all of the claims are in condition for allowance. The Examiner is respectfully requested to pass the above application to issue. Further, any amendments to the claims which have been made in this response and which have not been specifically noted to overcome a rejection based upon the prior art, should be considered to have been made for a purpose unrelated to patentability, and no estoppel should be deemed to attach thereto. The Examiner is invited to contact the undersigned at the telephone number listed below, if needed. Applicant hereby makes a written conditional petition for extension of time, if required. Please charge any deficiencies in fees and credit any overpayment of fees to Attorney's Deposit Account No. 50-2478.

Respectfully submitted,

Tao Jiang



Andrew M. Calderon

Registration No. 38,093

Roberts, Mlotkowski, Safran, Cole & Calderon PC
P.O. Box 10064
McLean, VA 22102
Phone: 703.584.8023
Fax: 703.848.2981
Email: acalderon@rmcsc2.com



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Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

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TITLE OF INVENTION: LED TUBE LAMP

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	12/26/2019

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If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

25570 7590 09/25/2019
Roberts Mlotkowski Safran Cole & Calderon, P.C.
 7918 Jones Branch Drive
 Suite 500
 McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/373,200	04/02/2019	TAO JIANG	6246-40007US13	5268

TITLE OF INVENTION: LED TUBE LAMP

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	12/26/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
TAN, VIBOL	2844	315-205000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/373,200	04/02/2019	TAO JIANG	6246-40007US13	5268
25570	7590	09/25/2019	EXAMINER	
Roberts Mlotkowski Safran Cole & Calderon, P.C. 7918 Jones Branch Drive Suite 500 McLean, VA 22102			TAN, VIBOL	
			ART UNIT	PAPER NUMBER
			2844	

DATE MAILED: 09/25/2019

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 16/373,200	Applicant(s) JIANG et al.	
	Examiner VIBOL TAN	Art Unit 2844	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 9/6/19.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☒ All b) ☐ Some *c) ☐ None of the:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892) 2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____. 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
---	--

/VIBOL TAN/ Primary Examiner, Art Unit 2844	
--	--

Continuation of 3. The allowed claim(s) is/are: 2-15,17-18,21-33,35-42 and 44-96

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: in combination with other claimed limitations, the prior arts of record fail to disclose or suggest wherein the end wall comprises a first portion made of an insulating material, as required in amended claims 2, 21, and 35.

3. Claims 2-15, 17, 18, 21-33, 35-42, 44-96 are now in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

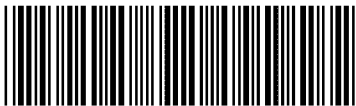
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VIBOL TAN whose telephone number is (571)272-1811. The examiner can normally be reached on M-F 7:00am-3:00pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Taningco can be reached on 571-272-8048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VIBOL TAN/
Primary Examiner, Art Unit 2844

Search Notes 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

CPC - Searched*		
Symbol	Date	Examiner
H05B33/0812 F21V19/003 H05B33/0803 F21K9/278 F21V23/023 F21V23/009 F21K9/27 H05B33/0809 Y02B20/343 H05B33/0845 Y02B20/345 and text	06/04/2019	VTan

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor names search	06/04/2019	VTan
EAST text search	06/04/2019	VTan
Parent application 15/888,335	06/04/2019	VTan
EAST text update	09/16/2019	VTan

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
uspgpub & uspat	text	09/16/2019	VTan

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Issue Classification 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

CPC						
Symbol					Type	Version
H05B	/	33	/	0812	F	2013-01-01
H05B	/	33	/	0809	I	2013-01-01
H05B	/	33	/	0803	I	2013-01-01
F21K	/	9	/	27	I	2016-08-01
F21K	/	9	/	278	I	2016-08-01
F21V	/	19	/	003	I	2013-01-01
F21V	/	23	/	009	I	2013-01-01
F21V	/	23	/	023	I	2013-01-01
H05B	/	33	/	0845	A	2013-01-01
Y02B	/	20	/	343	A	2013-01-01
Y02B	/	20	/	345	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 90	
/VIBOL TAN/ Primary Examiner, Art Unit 2844 (Primary Examiner) _____ (Date) 16 September 2019		O.G. Print Claim(s) 1	O.G. Print Figure 2 & 80

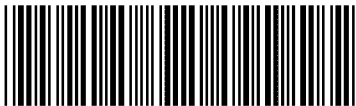
Issue Classification 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H05B	/	33	/	08
F21V	/	23	/	00
F21K	/	9	/	27
F21K	/	9	/	278
F21V	/	23	/	00
NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 90	
/VIBOL TAN/ Primary Examiner, Art Unit 2844 (Primary Examiner) _____ (Date) _____		16 September 2019 O.G. Print Claim(s)	O.G. Print Figure 2 & 80

Issue Classification 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

☐ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1	12	13	21	25	32	37	43	49	55	61	67	73	79	85
1	2	13	14	22	26	33	38	44	50	56	62	68	74	80	86
2	3	14	15	23	27	34	39	45	51	57	63	69	75	81	87
3	4		16	24	28	35	40	46	52	58	64	70	76	82	88
4	5	15	17	25	29	36	41	47	53	59	65	71	77	83	89
5	6	16	18	26	30	37	42	48	54	60	66	72	78	84	90
6	7		19	27	31		43	49	55	61	67	73	79	85	91
7	8		20	28	32	38	44	50	56	62	68	74	80	86	92
8	9	17	21	29	33	39	45	50	57	63	69	75	81	87	93
9	10	18	22		34	40	46	52	58	64	70	76	82	88	94
10	11	19	23	30	35	41	47	53	59	65	71	77	83	89	95
11	12	20	24	31	36	42	48	54	60	66	72	78	84	90	96

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 90	
/VIBOL TAN/ Primary Examiner, Art Unit 2844 (Primary Examiner) _____ (Date) 16 September 2019		O.G. Print Claim(s) 1	O.G. Print Figure 2 & 80

<i>Index of Claims</i> 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM			DATE							
Final	Original	09/16/2019								
	1	-								
1	2	=								
2	3	=								
3	4	=								
4	5	=								
5	6	=								
6	7	=								
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30	35	=								
31	36	=								
32	37	=								
33	38	=								
34	39	=								
35	40	=								
36	41	=								
37	42	=								

<i>Index of Claims</i> 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

CLAIM		DATE									
Final	Original	09/16/2019									
	43	-									
38	44	=									
39	45	=									
40	46	=									
41	47	=									
42	48	=									
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83	89	=									
84	90	=									
85	91	=									
86	92	=									
87	93	=									
88	94	=									

<i>Index of Claims</i> 	Application/Control No. 16/373,200	Applicant(s)/Patent Under Reexamination JIANG et al.
	Examiner VIBOL TAN	Art Unit 2844

CLAIM		DATE								
Final	Original	09/16/2019								
89	95	=								
90	96	=								

Bibliographic Data

Application No: 16/373,200

Foreign Priority claimed: ☒ Yes ☐ No

35 USC 119 (a-d) conditions met: ☒ Yes ☐ No ☒ Met After Allowance

Verified and Acknowledged:

/VIBOL TAN/

VTan

Examiner's Signature

Initials

Title:

LED TUBE LAMP

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
04/02/2019	315	2844	6246-40007US13
RULE			

APPLICANTS

JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO.,LTD, Zhejiang, CHINA

INVENTORS

TAO JIANG Zhejiang, CHINA

QIFENG YE Zhejiang, CHINA

YUEQIANG ZHANG Zhejiang, CHINA

CONTINUING DATA

This application is a CON of 15888335 02/05/2018 PAT 10426003

15888335 is a CON of 15643034 07/06/2017 PAT 10021742

15643034 is a CIP of 15483368 04/10/2017 PAT 9945520

15643034 is a CIP of 15339221 10/31/2016 PAT 9939140

15643034 is a CIP of 15298955 10/20/2016 PAT 9845923

15643034 is a CIP of 15258068 09/07/2016 PAT 9723662

15643034 is a CIP of 15211783 07/15/2016 PAT 9885449

15483368 is a CON of 15211717 07/15/2016 PAT 9618168

15339221 is a CIP of 15210989 07/15/2016 PAT 9587817

15210989 is a CIP of 15205011 07/08/2016 PAT 9629211

15643034 is a CIP of 15168962 05/31/2016

15205011 is a CIP of 15150458 05/10/2016 PAT 9794990

15211783 is a CIP of 15087088 03/31/2016 PAT 9879852

15168962 is a CIP of 15087092 03/31/2016 PAT 10082250

15210989 is a CIP of 15066645 03/10/2016 PAT 9497821

15211717 is a CIP of 15056121 02/29/2016 PAT 9447929

15643034 is a CIP of 15055630 02/28/2016 PAT 9781805

15168962 is a CIP of PCT/CN2015/096502 12/05/2015

15298955 is a CON of 14865387 09/25/2015 PAT 9609711

15258068 is a CON of 14699138 04/29/2015 PAT 9480109

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CHINA 201610452437.8 06/20/2016
CHINA 201610876593.7 10/08/2016

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STATE OR COUNTRY

CHINA

ADDRESS

Roberts Mlotkowski Safran Cole & Calderon, P.C.

7918 Jones Branch Drive

Suite 500

McLean, VA 22102

UNITED STATES

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\$6,120

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	191	(current adj limiting adj circuit) same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 15:56
S2	34	(current adj limiting adj circuit) same rectifier same filter same lamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 15:56
S3	411	((("201416790") or ("204539571") or ("2009027847") or ("20080247207") or ("7696700") or ("203661367") or ("201995158") or ("204300731") or ("104948958") or ("102196614") or ("102427632") or ("204756542") or ("201416789") or ("1688186") or ("202425117") or ("103428959") or ("204929364") or ("203039947") or ("11307815") or ("202857106") or ("202759649") or ("2015179652") or ("203801102") or ("201758472") or ("201414240") or ("202841636") or ("104812149") or ("102147053") or ("102147053") or ("102196627") or ("2884777") or ("2012221948") or ("102905429") or ("201339900") or ("102905429") or ("104968114") or ("203193958") or ("204498418") or ("202353882") or ("202190446") or ("103858521") or ("103858521") or ("20140306614") or ("201887988") or ("9155149") or ("201039522") or ("20110181190") or ("204761794") or ("202941026") or ("2819871") or ("2012129129") or ("201726573") or ("102438378") or ("102438378") or ("102984864") or ("101919315") or ("103179764") or ("102984864") or ("2355618A1") or ("202972697") or ("203023957") or ("202972696") or ("203225926") or ("202979368") or ("201718093") or ("202979420") or ("104968118") or ("204795685") or ("102905442") or ("20070096661") or ("204131808") or ("202634747") or ("2015513177") or ("102905442") or ("202406349") or ("103403439") or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/04 16:15

		("2010218811") or ("7276858") or ("102635804") or ("104206021") or ("204836733U") or ("0822579") or ("2532763") or ("202941025") or ("102792778") or ("20140049171") or ("101437342") or ("102792778") or ("102635804") or ("20120161650") or ("103025014") or ("2014216310") or ("102186282") or ("202634835") or ("102480820") or ("203757484") or ("204408691") or ("202652610") or ("201657412") or ("102480820") or ("101626650") or ("103025014") or ("101437342") or ("9155136") or ("202972844") or ("201409247") or ("102186282") or ("8836229") or ("201585165") or ("201255369") or ("202019481") or ("202425143") or ("201003696") or ("204031554") or ("201590932") or ("201547539") or ("202841630") or ("105208750") or ("2015185378") or ("2432297") or ("203942688") or ("203968454") or ("104661392") or ("104968113") or ("203963646") or ("204145835") or ("102711339") or ("102984851") or ("201657413") or ("2011151010") or ("2842974") or ("104994638") or ("104125680")).PN. or (("203590562") or ("203289708") or ("104968112") or ("204291440") or ("102984851") or ("101626650") or ("101176129") or ("101655216") or ("101176129") or ("20120068606") or ("20100096999") or ("20140152185") or ("202535579") or ("100482015") or ("20130278152") or ("201479418U") or ("103269537") or ("20120074854") or ("20080116816") or ("101677482") or ("204836732") or ("103269537") or ("101711066") or ("101998726") or ("8884533") or ("201210760") or ("8072152") or ("7649322") or ("2013219963") or ("2011258589") or ("201199738")).PN.				
S5	4	((((light adj emitting adj diode) or LED.u/c.) adj lamp) same terminal same (current adj limiting adj circuit) same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 11:49
S6	13	((((light adj emitting adj diode) or LED.u/c.) adj lamp) same terminal same dim\$4 same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 11:53
S7	392	((("201416790") or ("204539571") or ("2009027847") or ("20080247207") or ("7696700") or ("203661367") or ("201995158") or ("204300731") or ("104948958") or ("102196614") or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2016/02/09 12:07

("102427632") or ("204756542") or ("201416789") or ("1688186") or ("202425117") or ("103428959") or ("204929364") or ("203039947") or ("202857106") or ("202759649") or ("2015179652") or ("203801102") or ("201758472") or ("20141424") or ("202841636") or ("104812149") or ("102147053") or ("102147053") or ("102196627") or ("2884777Y") or ("2012221948") or ("201339900") or ("102905429") or ("102905429") or ("104968114") or ("203193958") or ("204498418") or ("202353882") or ("202190446") or ("103858521") or ("103858521") or ("201887988") or ("20140306614") or ("9155149") or ("201039522") or ("20110181190") or ("204761794") or ("202941026") or ("2819871") or ("201726573") or ("2012129129") or ("102438378") or ("102438378") or ("102984864") or ("101919315") or ("103179764") or ("102984864") or ("2355618A1") or ("202972697") or ("203023957") or ("202972696") or ("203225926") or ("202979368") or ("201718093") or ("104968118") or ("202979420") or ("204795685") or ("102905442") or ("20070096661") or ("204131808") or ("202634747") or ("2015513177") or ("102905442") or ("202406349") or ("103403439") or ("2010218811") or ("7276858") or ("104206021") or ("204836733") or ("102635804") or ("H822579") or ("202941025") or ("2532763") or ("102792778") or ("20140049171") or ("101437342") or ("102792778") or ("102635804") or ("103025014") or ("20120161650") or ("2014216310") or ("102186282") or ("102480820") or ("202634835") or ("204408691") or ("203757484") or ("202652610") or ("102480820") or ("201657412") or ("101626650") or ("103025014") or ("101437342") or ("9155136") or ("202972844") or ("201409247") or ("102186282") or ("8836229") or ("201585165") or ("201255369") or ("204993953") or ("202019481") or ("201003696") or ("202425143") or ("204031554") or ("201590932") or ("201547539") or ("202841630") or ("105208750") or ("2015185378") or ("203942688") or ("2432297") or ("203968454") or ("104661392") or ("203963646") or ("104968113") or ("204145835") or ("102711339") or ("102984851") or ("201657413") or ("2011151010") or ("2842974") or ("203590562") or ("10412568")).PN. or (("104994638") or ("203289708") or ("204291440") or ("104968112") or ("102984851") or	DERWENT; IBM_TDB
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		("101176129") or ("101626650") or ("101655216") or ("101176129") or ("20120068606") or ("100482015") or ("20100096999") or ("20140152185") or ("202535579") or ("201479418") or ("20130278152") or ("103269537") or ("20120074854") or ("20080116816") or ("101677482") or ("204836732") or ("103269537") or ("101711066") or ("101998726") or ("2011258589") or ("8884533") or ("201210760") or ("8072152") or ("7649322")).PN.				
S8	308	((("9241378") or ("202353882") or ("20150002039") or ("8648542") or ("103874267") or ("20120256551") or ("202353862") or ("2658347") or ("103139963") or ("20130278161") or ("102057751") or ("102057751") or ("204300731") or ("201844248") or ("103428959") or ("102032484") or ("103139963") or ("103052198") or ("203167342") or ("102907177") or ("202425143") or ("104019378") or ("2012221948") or ("20100079076") or ("102573181") or ("201983229") or ("2496056") or ("102523654") or ("2639987") or ("102523654") or ("102032484") or ("103857138") or ("20110025206") or ("201409247") or ("20140239834") or ("101655216") or ("2288235") or ("1249896") or ("8053995") or ("1171509") or ("8415889") or ("204598355") or ("104968114") or ("102376272") or ("20140117851") or ("2298030B1") or ("101655216") or ("103621179") or ("202005010") or ("204408691") or ("102011953") or ("203313480") or ("202143243") or ("203327323") or ("204761794") or ("103619093") or ("201547539") or ("102164440") or ("104582149") or ("201255369") or ("201898649") or ("204131813") or ("2013012488") or ("103460803") or ("103442502") or ("20150312989") or ("201830522") or ("102164440") or ("204305436") or ("204948416") or ("201242075") or ("102176797") or ("2009147563") or ("2009134946") or ("102176797") or ("201846506") or ("2298030") or ("2013066270") or ("201416790") or ("2014235778") or ("202005039") or ("2774457") or ("2015179652") or ("102635804") or ("102818141") or ("101977468") or ("103748961") or ("104378880") or ("2015525440") or ("203176981") or ("102635804") or ("102413599")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 12:58
S9	97	((light adj emitting adj diode) or LED.u/c.) adj lamp) same bi-pin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2016/02/09 13:22

			IBM_TDB			
S10	0	((light adj emitting adj diode) or LED.u/c.) adj lamp) same bi-pin same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 13:23
S11	30	((light adj emitting adj diode) or LED.u/c.) adj lamp) and bi-pin and rectifier and filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/02/09 13:24
S12	95	((light adj emitting adj diode) or LED.u/c.) adj lamp) same (terminal or pin) same ((limiting adj circuit) or capacitor) same rectifier same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/09 14:02
S13	37	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$).did. or (US-5777439-\$ or US-5606224-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$).did.	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2016/02/09 16:17
S14	29	S13 AND ((H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0812 OR H05B33/0806 OR H05B33/0884 OR H05B33/0887 OR H05B33/089 OR H05B37/02 OR Y02B20/386 OR Y02B20/40 OR Y02B20/186 OR Y02B20/342 OR Y02B20/346 OR F21K9/17).CPC.)	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2016/02/09 16:20
S15	45302	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.)	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2016/05/23 08:01
S16	45423	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812	US-PGPUB; USPAT;	OR	OFF	2016/05/23 08:01

		H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S17	2	S16 and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:01
S18	3	rectifier and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:05
S19	4	(filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:06
S20	2	(filament-simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:06
S21	4422	(filament near1 circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:06
S22	688	(filament near1 circuit) same rectifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:07
S23	163	(filament near1 circuit) same rectifier same (capacitor or capacitance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:07
S24	0	(filament near1 circuit) same rectifier same (capacitor or capacitance) same bi-pin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:12

S25	2	(filament near1 circuit) same rectifier same bi-pin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:12
S26	3	(filament near1 circuit) same bi-pin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:14
S27	1	bi-pin and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/05/23 08:14
S28	38	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$).did. or (US-5777439-\$ or US-5606224-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$).did.	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2016/05/23 10:08
S33	6	("20110057572" "20110121756" "20120299501" "20150173138" "20160081147" "9210744").PN.	US-PGPUB; USPAT	OR	OFF	2016/08/10 15:44
S34	6	("20110057572" "20110121756" "20120299501" "20150173138" "20160081147" "9210744").PN.	US-PGPUB; USPAT	OR	OFF	2016/08/10 15:45
S35	1	("9480109").PN.	USPAT; USOCR	OR	OFF	2017/03/13 12:50
S36	320	((("CHEN") near3 ("Zhong"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:37
S37	6	((("ZHANG") near3 ("Yueqiang"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:38
S38	307	((("JIANG") near3 ("Tao"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:38

S39	13	((("YE") near3 ("Qifeng")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/13 15:38
S40	634	S36 S37 S38 S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/13 15:39
S41	3	S40 and (bi-pin or bipin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/13 15:39
S42	24	(filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/14 09:15
S43	1090	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.) and (rectifier or rectification or rectifying) and filter\$3 and (current adj limit\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/14 09:49
S44	64	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.) and (rectifier or rectification or rectifying) and filter\$3 and (current adj limit\$3) and (bipin or bi-pin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/14 09:50
S45	31	(filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:01
S46	4	(filament adj simulating) and (bi adj pin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:18
S47	0	(filament adj simulating) and (bipin)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2017/04/27 09:18

			EPO; JPO; DERWENT; IBM_TDB			
S48	4	(filament adj simulating) and (bi-pin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:18
S49	28	((H05B33/0809 H05B33/0815 H05B33/0803 H05B33/0812 H05B33/0806 H05B33/0884 H05B33/0887 H05B33/089 H05B37/02 Y02B20/386 Y02B20/40 Y02B20/186 Y02B20/342 Y02B20/346 F21K9/17).CPC.) and (filament adj simulating adj circuit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 09:35
S50	45	("20100102729" "20160081147" "20150077001" "20140265900" "20120313540" "20120181952" "20150351171" "20110181190" "8648542" "8525427" "20110121756" "20110057572" "20150173138" "20120299501" "9210744" "20130320869" "20110176297" "20100220469" "20120300445" "20150176770" "7380961" "20100096976" "20140239827" "20100181925" "20140035463" "20110149563" "20070127242" "5936599" "8796943" "20160091147" "20160102813" "20160198535" "20160212809" "20160219666" "20160219658" "20160255694" "20160255699" "20160270184" "20160270165" "20160270164" "20160270166" "20160270173" "20160309550" "20160323948" "20160381760").PN.	US-PGPUB; USPAT	OR	OFF	2017/04/27 10:13
S51	6	(bi-pin or (bi adj pin)) same rectifier same filter same (LED.u/c. adj (lamp or module))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 10:30
S52	109	(bi-pin or (bi adj pin)) and rectifier and filter and (LED.u/c. adj (lamp or module))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 10:33
S53	0	(bi-pin or (bi adj pin)) near5 capacitors near5 resistors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 12:22

S54	2	(bi-pin or (bi adj pin)) near10 capacitors near5 resistors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 12:23
S55	2	(bi-pin or (bi adj pin)) near10 capacitors near10 resistors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 12:23
S56	25	(bi-pin or (bi adj pin)) and rectifier and filter and (LED.u/c. adj (lamp or module)) and stimul\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/27 12:24
S57	3	((bi-pin or bipin) near5 current) same pre-heat	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/28 07:55
S58	15	(bi-pin or bipin) same pre-heat	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/28 07:55
S61	4	((("20170038012") or ("9723663") or ("9480955") or ("9609711")).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 09:10
S62	0	S61 and (heat adj sink adj sleeve)	US-PGPUB; USPAT	OR	ON	2017/12/01 09:14
S63	0	S61 and (heat adj sink)	US-PGPUB; USPAT	OR	ON	2017/12/01 09:15
S64	2	S61 and (heat adj shrink)	US-PGPUB; USPAT	OR	ON	2017/12/01 09:15
S65	148	((("1276915") or ("1276914") or ("20060186573") or ("204611707") or ("2585026") or ("1296146") or ("100430645") or ("1884907") or ("20160178137") or ("100483017") or ("204114684") or ("20170159894") or ("104266104") or ("206532636") or ("1624378") or ("2485527") or ("202791824") or ("6043600") or ("2733173") or ("1999012186") or ("1010196") or ("5173637") or ("20160178138") or ("9447929") or ("100501222") or ("204164958") or ("1807968") or ("2001012014") or ("4419304") or ("1999012185") or ("1010195") or ("2001515262") or ("2686085") or ("5536998") or ("2466497") or ("1731010") or	USPAT; USOCR	OR	OFF	2017/12/01 09:31

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S66	1376	((("1276915") or ("1276914") or ("20060186573") or ("204611707") or ("2585026") or ("1296146") or ("100430645") or ("1884907") or ("20160178137") or ("100483017") or ("204114684") or ("20170159894") or ("104266104") or ("206532636") or ("1624378") or ("2485527") or ("202791824") or ("6043600") or ("2733173") or ("1999012186") or ("1010196") or ("5173637") or ("20160178138") or ("9447929") or ("100501222") or ("204164958") or ("1807968") or ("2001012014") or ("4419304") or ("1999012185") or ("1010195") or ("2001515262") or ("2686085") or ("5536998") or ("2466497") or ("1731010") or ("1331834") or ("202852486") or ("203023907") or ("2437951") or ("20170211753") or ("M532547") or ("2839823") or ("1345658") or ("2016086901") or ("201014280") or ("206582592") or ("2016086901") or ("203363984") or ("201969072") or ("202791828") or ("102679185") or ("6078136") or ("104806900") or ("85108264") or ("2267596") or ("0893710") or ("104806900") or ("2001169429") or ("203286341") or ("204099972") or ("2867081") or ("2323262") or ("103542376") or ("2438240") or ("M537638") or ("100351152") or ("205844695") or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/01 09:32

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S67	4	((("20170038012") or ("9723662") or ("9480955") or ("9609711"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 10:06
S68	4	((("20170038012") or ("9723662") or ("9480109") or ("9609711"))).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/01 10:07
S69	16	(heat adj shrink) near2 cover\$3 near2 (outer adj surface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/01 10:43
S70	88	(heat adj shrink) near5 cover\$3 near5 (outer adj surface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/01 10:48
S71	1	("20170311398").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/05 08:08
S72	1543	(heat adj shrink) near5 cover\$3 near5 tub\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:38
S73	1	(heat adj shrink) near5 cover\$3 near5 (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:39
S74	3	(heat adj shrink) with (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:41
S75	3	(heat adj shrink) same (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2017/12/05 08:42

			IBM_TDB			
S76	1	(heat adj shrink) near10 cover\$3 near10 (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:42
S77	1	(heat adj shrink) near10 (cover\$3 or over) near10 (fluorescent adj tub\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 08:43
S78	3	((("20040189218") or ("20030189829") or ("20130258650")).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/05 09:39
S79	75614	fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/05 09:46
S80	815	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((strip or substrate or board) near10 ((power adj supply) or (electronic adj components)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/05 09:49
S81	31	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((strip or substrate or board) near10 ((power adj supply) or (electronic adj components))) same caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/05 09:54
S82	110	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((strip or substrate or board) near10 ((power adj supply) or (electronic adj components))) same caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 09:54
S83	87	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same (((power adj supply) or (electronic adj components)) near5 rectifiers)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 14:26
S84	1	("9163818").PN.	USPAT; USOCR	OR	OFF	2017/12/05 14:35
S85	1	("20140104824").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/05 14:38
S86	107	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) and (((power adj supply) or (electronic adj components)) near5 rectifiers near5	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2017/12/05 14:47

		(filter\$3 or capacitors))	EPO; JPO; DERWENT; IBM_TDB			
S87	37	((power adj supply) or (electronic adj components)) near5 (first adj rectif\$4) near5 (second adj rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 14:54
S88	3	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((first adj rectif\$4) near5 (second adj rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 14:57
S89	1	HUOLIAN-LIN.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 15:03
S90	4	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((first adj rectif\$4) near5 (second adj rectif\$4) near10 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 15:08
S91	9	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((first adj rectif\$4) near10 (second adj rectif\$4) near10 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 15:10
S92	79	(reflective adj film) near5 (inner near2 surface) near3 tube	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 09:14
S93	723	(adhesive adj sheet) same lamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 10:59
S94	200	(adhesive adj sheet) same lamp same (board or substrate or strip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:00
S95	68	(adhesive adj sheet) same lamp same (board or substrate or strip) same tube	US-PGPUB; USPAT;	OR	ON	2017/12/06 11:01

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S96	3	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) and (((power adj supply) or (electronic adj components)) near5 ((dual or two) near1 rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:13
S97	50	(((power adj supply) or (electronic adj components)) near5 ((dual or two) near1 rectif\$4) near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:14
S98	1	("20140104824").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/06 11:17
S99	2	((("9163818") or ("8749167")).PN.	US-PGPUB; USPAT	OR	OFF	2017/12/06 11:22
S100	2	("8459831" "8749167").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/12/06 11:22
S101	1	("9163818").URPN.	USPAT	OR	OFF	2017/12/06 11:23
S102	204	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) and (((power adj supply) or (electronic adj components)) near5 rectif\$4 near5 (filter\$3 or capacitors))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 11:25
S103	284	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) near10 (end adj caps)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:15
S104	13	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) near10 ((end adj caps) near5 (open\$3 or holes or vent))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:16
S105	53	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same ((end adj caps) near5 (open\$3 or holes or vent))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:18
S106	142	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same (caps near5 (open\$3 or holes or vent))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2017/12/06 13:19

			EPO; JPO; DERWENT; IBM_TDB			
S107	2	(fluorescent near10 ((light adj emitting adj (diodes or elements)) or led.u/c.)) same (caps near5 (open\$3 or holes or vent) near5 (heat adj dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:20
S108	3	fluorescent same (caps near5 (open\$3 or holes or vent) near5 (heat adj dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:22
S109	31	fluorescent and (caps near5 (open\$3 or holes or vent) near5 (heat adj dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:23
S110	18	(LED.u/c. adj strip) near10 (adhesive adj (sheet or tape))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/06 13:49
S111	108	(fluorescent or tube) and (caps near5 (openings or holes or vent) near5 (heat near2 dissipat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 07:46
S112	107	(fluorescent or tube) and (caps near5 hot adj melt)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 10:21
S113	106	(filter\$3 adj circuit) near10 (two adj rectif\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 11:45
S114	1	("9447929").PN.	USPAT; USOCR	OR	OFF	2017/12/07 13:39
S115	1	("20120051039").PN.	US-PGPUB; USPAT	OR	OFF	2017/12/07 13:55
S116	13455	inductors near5 series bi-pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/12/07 14:06

			EPO; JPO; DERWENT; IBM_TDB			
S117	61008	inductor near5 series bi-pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 14:06
S118	0	inductor near5 series near2 bi-pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 14:06
S119	0	inductor near5 series near2 pin near5 rectif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/07 14:06
S120	118	(US-20110181190-\$ or US- 20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US- 20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US- 20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US- 20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US- 20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US- 20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US- 20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US- 20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US- 20160219658-\$).did. or (US- 20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US- 20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US- 20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US- 20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US- 20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US- 20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US- 20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US- 20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US- 20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US- 20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US- 20100290218-\$ or US-20170234519-\$	US-PGPUB; USPAT; FPRS; DERWENT	OR	OFF	2017/12/07 14:20

		or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$).did.				
S122	161288	((F21Y2115/10 OR F21K9/27 OR F21K9/00 OR F21K9/23 OR F21K9/235 OR F21K9/237 OR H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0887 OR H05B33/0884 OR H05B33/0812 OR H05B33/083 OR H05B37/02 OR F21V3/0418 OR F21V7/22 OR F21V23/009 OR F21V23/06 OR F21V3/0472 OR F21V29/70 OR F21V29/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/07 14:24
S123	38	("20020176262" "20030102819" "20080302476" "20100220469" "20110084554" "20110084608" "20110084627" "20110148313" "20110228526" "20110260614" "20110279063" "20110309745" "20120212951" "20130127327" "20130147350" "20130223053" "20130230995" "20130293098" "20130335959" "20140055029" "20140192526" "20160219658" "20160270163" "20160270165" "20170067627" "20170159923" "20170196064" "20170211753" "20170219169" "20170311398" "20170347423" "6186649" "8749167" "9497821" "9585221" "9587817" "9689536" "D797323").PN.	US-PGPUB; USPAT	OR	OFF	2018/02/27 13:35
S124	118	(US-20110181190-\$ or US-	US-PGPUB;	OR	OFF	2018/02/28

20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US- 20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US- 20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US- 20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US- 20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US- 20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US- 20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US- 20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US- 20160219658-\$).did. or (US- 20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US- 20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US- 20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US- 20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US- 20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US- 20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US- 20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US- 20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US- 20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US- 20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US- 20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US- 20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US- 20130009497-\$ or US-20100181932-\$ or US-20160081147-\$).did. or (US- 5777439-\$ or US-5606224-\$ or US- 8896207-\$ or US-9629216-\$ or US- 9629215-\$ or US-9629211-\$ or US- 9609711-\$ or US-8870415-\$ or US- 5815627-\$ or US-9759391-\$ or US- 8956013-\$ or US-7049761-\$ or US- 9775215-\$ or US-9756698-\$ or US- 9277603-\$ or US-9163818-\$ or US- 9835312-\$ or US-9807826-\$ or US- 9625137-\$ or US-3841730-\$ or US- 9781805-\$ or US-8459831-\$ or US- 6246167-\$ or US-9447929-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$).did. or (US- 20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or	USPAT; FPRS; DERWENT	09:00
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		DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$).did.				
S125	1	((F21Y2115/10 OR F21K9/27 OR F21K9/00 OR F21K9/23 OR F21K9/235 OR F21K9/237 OR H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0887 OR H05B33/0884 OR H05B33/0812 OR H05B33/083 OR H05B37/02 OR F21V3/0418 OR F21V7/22 OR F21V23/009 OR F21V23/06 OR F21V3/0472 OR F21V29/70 OR F21V29/02).CPC.) and ((lamp adj tube) and (four adj filtering adj units))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/28 09:09
S126	54	((F21Y2115/10 OR F21K9/27 OR F21K9/00 OR F21K9/23 OR F21K9/235 OR F21K9/237 OR H05B33/0809 OR H05B33/0815 OR H05B33/0803 OR H05B33/0887 OR H05B33/0884 OR H05B33/0812 OR H05B33/083 OR H05B37/02 OR F21V3/0418 OR F21V7/22 OR F21V23/009 OR F21V23/06 OR F21V3/0472 OR F21V29/70 OR F21V29/02).CPC.) and ((lamp adj tube) and ((heat adj shrink) or (shring adj (tub\$3 or sleeve))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/28 09:11
S129	209	("20020044456" "20020176262" "20030102819" "20030189829" "20030231485" "20040095078" "20040189218" "20050128751" "20050162850" "20050168123" "20050185396" "20050207166" "20050213321" "20060028837" "20070001709" "20070127242" "20070145915" "20070210687" "20070274084" "20080030981" "20080192476" "20080278941" "20080290814" "20080302476" "20090140271" "20090159919" "20090161359" "20100085772" "20100096976" "20100102729" "20100177532" "20100181925" "20100201269" "20100220469" "20100253226" "20100277918" "20110038146" "20110043127" "20110057572" "20110084554" "20110084608" "20110084627" "20110090684" "20110121756" "20110148313" "20110149563" "20110176297" "20110181190" "20110216538" "20110279063" "20110309745" "20120049684" "20120051039" "20120069556" "20120106157" "20120146503" "20120153873" "20120169968" "20120181952" "20120212951" "20120293991" "20120299501" "20120300445" "20120313540"	US-PGPUB; USPAT	OR	OFF	2018/05/18 11:29

		"20120319150" "20130021809" "20130033881" "20130033888" "20130050998" "20130069538" "20130094200" "20130135852" "20130170196" "20130170245" "20130182425" "20130223053" "20130230995" "20130250565" "20130256704" "20130258650" "20130293098" "20130313983" "20130320869" "20140035463" "20140062320" "20140071667" "20140117853" "20140153231" "20140192526" "20140225519" "20140226320" "20140239827" "20140239834" "20140265900" "20150009688" "20150077001" "20150173138" "20150176770" "20150327368" "20150351171" "20150366008" "20160081147" "20160178135" "20160178137" "20160198535" "20160215936" "20160215937" "20160223180" "20160223182" "20160229621" "20160255699" "20160270163" "20160270164" "20160270165" "20160270166" "20160270173" "20160270184" "20160290566" "20160290567" "20160290598" "20160290609" "20160295706" "20160309550" "20160323948" "20160341414" "20160356472" "20160363267" "20160381746" "20160381760" "20170001793" "20170038012" "20170038013" "20170038014" "20170089521" "20170102114" "20170130911" "20170159894" "20170164434" "20170167664" "20170181239" "20170196064" "20170211753" "20170219169" "20170311398" "20170347423" "20180031186" "2454049" "3294518" "4156265" "4647399" "5575459" "5921660" "5936599" "6118072" "6127783" "6186649" "6211262" "6246167" "6609813" "6796680" "6860628" "6936855" "7033239" "7067032" "7380961" "7594738" "8360599" "8456075" "8525427" "8579463" "8648542" "8796943" "9210744" "9447929" "9480109" "9497821" "9521718" "9526145" "9585221" "9609711" "9611984" "9618166" "9618168" "9625129" "9625137" "9629211" "9629215" "9629216" "9723662" "9756698" "9775215" "9781805" "9794990" "9795001" "9801240" "9807826" "9820341" "9826585" "9835312" "9845923" "9851073" "9860959" "9867239" "9869431" "9879852" "9883558" "D761216" "D768891" "D797323").PN.				
S130	739	((("2017016399") or ("9885449") or	US-PGPUB;	OR	OFF	2018/05/18

<p>("20170089521") or ("20160341414") or ("20180031186") or ("9945520") or ("2016086901") or ("3001468") or ("20170211753") or ("2016086901") or ("3001092") or ("9618168") or ("20170089530") or ("20160290598") or ("2016045633") or ("9611984") or ("9625137") or ("9618166") or ("20160290569") or ("20160290568") or ("20160295706") or ("9955587") or ("20160091156") or ("20170167664") or ("9845923") or ("20170038012") or ("9964263") or ("20170130911") or ("20160290566") or ("206409923") or ("20160290567") or ("9851073") or ("201504566") or ("9835312") or ("20160290570") or ("20170311398") or ("9927071") or ("20170219169") or ("106813117") or ("2016070824") or ("9625129") or ("9609711") or ("20160091147") or ("203628310") or ("20160091179") or ("103438378") or ("20160215937") or ("103453498") or ("3146803") or ("2016045630") or ("9869431") or ("20170038014") or ("20170205055") or ("20160290609") or ("2013166920") or ("3179164") or ("205842293") or ("9890936") or ("20160178135") or ("105736971") or ("201031867") or ("204534185") or ("205619064") or ("201425179") or ("105650531") or ("2016086900") or ("20150252958") or ("2016088123") or ("2014048677") or ("205208155") or ("103868028") or ("201506313") or ("9318860") or ("20110235319") or ("2005085705") or ("1721100") or ("9526145") or ("203052540") or ("20160219658") or ("9879852") or ("201107657") or ("102128372") or ("20160215936") or ("2012100392") or ("103868028") or ("9897265") or ("2525131") or ("201506301") or ("203628538") or ("20170102114") or ("9860959") or ("20170142790") or ("20170105263") or ("20120293991") or ("201024609") or ("2016054829") or ("2016070836") or ("201100710") or ("M473476") or ("9883558") or ("102454919") or ("201506314") or ("20170196064") or ("102252177") or ("20170268732") or ("102252177") or ("9695991") or ("20150062890") or ("102128372") or ("201363579") or ("206018332") or ("9903577") or ("201983037") or ("103216753") or ("20170159894") or ("20170321849") or ("20140355272") or ("106151907") or ("20050162101") or ("2986889") or ("2016029871") or ("202302891") or ("20080290814") or ("201448641") or ("104879716") or ("204114661") or ("2007092003") or ("2017071015") or ("2017152801") or ("7067992")).PN. or</p>	<p>USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p>	<p>11:38</p>
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		(("203744142") or ("104806903") or ("M470910") or ("20160123543") or ("M468626") or ("2016058285") or ("20050281030") or ("103423690") or ("106499959") or ("20170184284") or ("104141901") or ("3208519") or ("2012009260") or ("2593714") or ("20120008316") or ("7490957") or ("2007035203") or ("202756939") or ("20170234519") or ("203375312") or ("2015075986") or ("2014194572") or ("105444039") or ("102748626") or ("M378353") or ("204573639") or ("204647890") or ("204573712") or ("204164875") or ("102748626") or ("M545209") or ("9903537") or ("104421712") or ("201447172") or ("M553395") or ("202938111") or ("2013129362") or ("20160178137") or ("204083867") or ("103459921") or ("1618331") or ("206320547") or ("2011072580") or ("203309619") or ("8596813") or ("103644541") or ("104728781") or ("2011157635") or ("202791854") or ("20160176336") or ("204114662") or ("205350916") or ("2004097291") or ("204083883") or ("2011087017") or ("20160270163") or ("107690553") or ("2016086901") or ("104806903") or ("104089209") or ("105972464") or ("106032880") or ("9629216") or ("20150029734") or ("20100320891") or ("2014101251") or ("204573706") or ("20120293996") or ("2014086158") or ("20180124889") or ("2409366") or ("103016984") or ("20160025278") or ("2650588") or ("2999669") or ("101949499") or ("7969076") or ("101949499") or ("203585868")).PN.				
S131	189	S130 and caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:39
S132	77	S130 and ((power adj supply) near5 caps)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:40
S133	108	tub\$4 and ((power adj supply) near5 caps) and (light adj strip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:46
S134	93	tub\$4 same ((power adj supply) near5 caps) same (light adj strip)	US-PGPUB; USPAT;	OR	ON	2018/05/18 11:46

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S135	356	tub\$4 same ((power adj supply) near5 caps) same (end adj cap\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:49
S136	296	tub\$4 same ((power adj supply) near5 caps) same (end adj cap\$1) same (light or lamp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 11:49
S137	3	((("20100201269") or ("20100277918") or ("20120212951"))).PN.	US-PGPUB; USPAT	OR	OFF	2018/05/18 12:02
S138	0	((("20120212951") or ("20100201269") or ("20100277918"))).PN.	USPAT; USOCR	OR	OFF	2018/05/21 06:56
S139	3	((("20120212951") or ("20100201269") or ("20100277918"))).PN.	US-PGPUB; USPAT	OR	OFF	2018/05/21 06:56
S140	130	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US-20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US-20160219658-\$).did. or (US-20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US-20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US-20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US-20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US-20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US-20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US-20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US-20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US-20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US-20160057825-\$ or US-20160057824-\$	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2018/05/21 07:21

		or US-20150198318-\$ or US-20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$ or US-20100277918-\$ or US-20120212951-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$ or US-9955587-\$ or US-9945520-\$).did. or (US-9903577-\$ or US-9927071-\$ or US-9970640-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$ or WO-2009140840-\$).did. or (WO-2009140840-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$ or US-20170089530-\$ or WO-2016074140-\$ or CN-204704694-\$).did.				
S142	27	S140 and ((hole or opening) near5 cap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/21 07:23
S143	130	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US-	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2018/05/21 09:23

20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US-20160219658-\$).did. or (US-20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US-20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US-20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US-20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US-20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US-20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US-20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US-20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US-20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US-20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US-20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$ or US-20100277918-\$ or US-20120212951-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$ or US-9955587-\$ or US-9945520-\$).did. or (US-9903577-\$ or US-9927071-\$ or US-9970640-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$ or WO-2009140840-\$).did. or (WO-2009140840-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$ or US-20170089530-\$ or WO-2016074140-\$ or CN-204704694-\$).did.				
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S144	1	S143 and (pins near10 fuse near10 power adj supply)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/21 09:25
S145	0	S143 and (fuse near10 power adj supply)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/21 09:29
S146	3	((("20100277918") or ("20100253226") or ("20120212951")).PN.	US-PGPUB; USPAT	OR	OFF	2018/08/13 10:16
S147	19	hsia same (light adj emitting diode)	US-PGPUB; USPAT	OR	ON	2018/08/13 14:26
S148	0	hsia.in. same (light adj emitting diode)	US-PGPUB; USPAT	OR	ON	2018/08/13 14:26
S149	2183	hsia.in.	US-PGPUB; USPAT	OR	ON	2018/08/13 14:27
S150	446	hsia.in. and (light adj emitting diode)	US-PGPUB; USPAT	OR	ON	2018/08/13 14:27
S151	21	hsia.in. and (light adj emitting diode) and rectifier and filter	US-PGPUB; USPAT	OR	ON	2018/08/13 14:28
S152	1	("8849167").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:30
S153	1	("8749167").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:31
S154	1	("9277603").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:33
S155	1	("9288867").PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:33
S156	2	((("9288867") or ("9163818")).PN.	USPAT; USOCR	OR	OFF	2018/08/13 14:35
S157	132	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US-20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US-20160219658-\$).did. or (US-20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US-20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US-20160219672-\$ or US-20170311398-\$	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2018/08/13 15:01

		or US-20170211753-\$ or US-20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US-20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US-20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US-20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US-20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US-20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US-20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US-20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$ or US-20100277918-\$ or US-20120212951-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$ or US-9955587-\$ or US-9945520-\$).did. or (US-9903577-\$ or US-9927071-\$ or US-9970640-\$ or US-8849167-\$ or US-9288867-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$ or WO-2009140840-\$).did. or (WO-2009140840-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$ or US-20170089530-\$ or WO-2016074140-\$ or CN-204704694-\$).did.				
S158	30	S157 and fuse	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/13 15:01

S159	8	("20100253226" "20100277918" "20150070885" "20170290119" "4059324" "5964518" "9448660" "9864438").PN.	US-PGPUB; USPAT	OR	OFF	2018/10/12 09:23
S160	42107	(H05B33/0812 or F21V19/003 or H05B33/0803 or F21K9/278 or F21V23/023 or F21V23/009 or F21K9/27 or H05B33/0809 or Y02B20/343 or H05B33/0845 or Y02B20/345).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:55
S161	1	S160 and (pins near10 fuse near10 power adj supply)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:55
S162	1565	S160 and (power adj supply) and caps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:57
S163	1016	S160 and (power adj supply) and caps and tube	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:57
S164	220	S160 and (power adj supply) and caps and tube and (light adj (strip or panel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:58
S165	254	S160 and (power adj supply) and caps and tube and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:58
S166	194	S160 and (power adj supply) and (end adj caps) and tube and (light adj (strip or panel or array))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/12 10:59
S172	1	("10021742").PN.	USPAT; USOCR	OR	OFF	2018/10/30 10:40
S173	2	("20180177008").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2018/10/30 11:11
S174	132	("20030189829" "20040189218"	US-PGPUB;	OR	OFF	2018/10/31

		"20050162850" "20050185396" "20050280017" "20070001709" "20070114555" "20080192476" "20080230790" "20080290814" "20080302476" "20090040415" "20090159919" "20100085772" "20100124054" "20100181925" "20100201269" "20100220469" "20100253226" "20100277918" "20110038146" "20110043127" "20110057572" "20110084554" "20110084608" "20110084627" "20110121756" "20110175536" "20110176297" "20110228526" "20110279063" "20110286208" "20110291592" "20110309745" "20120049684" "20120051039" "20120068604" "20120069556" "20120146503" "20120181952" "20120212951" "20120248986" "20120248989" "20120299501" "20120300445" "20120319150" "20130021809" "20130033881" "20130050998" "20130051008" "20130069538" "20130127327" "20130135852" "20130147350" "20130215609" "20130223053" "20130230995" "20130250565" "20130256704" "20130258650" "20130293098" "20130301255" "20130313983" "20130320869" "20130335959" "20140009923" "20140035463" "20140055029" "20140062320" "20140099801" "20140117853" "20140153231" "20140192526" "20140203717" "20140225519" "20140239834" "20140265899" "20140265900" "20140331532" "20150070885" "20150173138" "20150176770" "20150181661" "20150195889" "20150366008" "20160081147" "20160091147" "20160113091" "20160286621" "20160316533" "20160381760" "20170094746" "20170105263" "20170290119" "2454049" "4059324" "4156265" "4935665" "5706177" "5803577" "5964518" "6246167" "6762562" "6853151" "7067032" "7067992" "7135034" "7380961" "7594738" "7611260" "8057084" "8240875" "8360599" "8421088" "8456075" "8729809" "8796943" "8870415" "8896207" "9022632" "9210774" "9322531" "9445463" "9448660" "9526133" "9609711" "9625137" "9629211" "9629215" "9629216" "9794990" "9864438").PN.	USPAT			12:40
S175	252	(power adj supply) and (end adj caps) and (tube tubular) and (light adj (strip or panel or array)) and (heat adj (dissipat\$3 sink))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/02/22 07:55

			DERWENT; IBM_TDB			
S176	169	S175 and ((H05B33/0812 or F21V19/003 or H05B33/0803 or F21K9/278 or F21V23/023 or F21V23/009 or F21K9/27 or H05B33/0809 or Y02B20/343 or H05B33/0845 or Y02B20/345).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/22 07:58
S177	252	(power adj supply) and (end adj caps) and (tube tubular) and (light adj (strip or panel or array)) and (heat adj (dissipat\$3 sink))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/22 08:28
S178	169	S177 and ((H05B33/0812 or F21V19/003 or H05B33/0803 or F21K9/278 or F21V23/023 or F21V23/009 or F21K9/27 or H05B33/0809 or Y02B20/343 or H05B33/0845 or Y02B20/345).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/22 08:28
S179	144	((power adj supply) with (end adj caps)) and (tube tubular) and (light adj (strip or panel or array)) and (heat adj (dissipat\$3 sink))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/22 09:00
S180	125	((power adj supply) near5 (end adj caps)) and (tube tubular) and (light adj (strip or panel or array)) and (heat adj (dissipat\$3 sink))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/22 09:01
S181	119	S180 and ((H05B33/0812 or F21V19/003 or H05B33/0803 or F21K9/278 or F21V23/023 or F21V23/009 or F21K9/27 or H05B33/0809 or Y02B20/343 or H05B33/0845 or Y02B20/345).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/02/22 09:01
S182	20	("10021742" "20050162101" "20080055894" "20090219713" "20100066230" "20110149563" "20110305021" "20120026761" "20120212951" "20120319150" "20130033888" "20130135857" "20130235570" "20150070885" "20150345755" "20160091147" "7611260" "9000668" "9288867" "9625137").PN.	US-PGPUB; USPAT	OR	OFF	2019/02/22 09:34
S183	1	("10021742").PN.	USPAT; USOCR	OR	OFF	2019/02/22 10:23
S185	4	((("20150070885") or ("20120031915") or ("20130069538") or ("20120146503")).PN.	US-PGPUB; USPAT	OR	OFF	2019/04/05 14:17
S186	31736	kabushiki-kaisha-toshiba.as.	US-PGPUB	OR	ON	2019/04/05

						14:26
S187	10299	S186 and (lamp light)	US-PGPUB	OR	ON	2019/04/05 14:26
S188	1453	S186 and (lamp and light)	US-PGPUB	OR	ON	2019/04/05 14:27
S189	1	("10342078").PN.	USPAT; USOCR	OR	OFF	2019/09/13 14:24
S190	1	("20190230756").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/13 15:07
S191	134	(US-20110181190-\$ or US-20140049171-\$ or US-20130278152-\$ or US-20120161650-\$ or US-20120026761-\$ or US-20110291585-\$ or US-20080247207-\$ or US-20150312989-\$ or US-20140239834-\$ or US-20140117851-\$ or US-20130278161-\$ or US-20120256551-\$ or US-20110025206-\$ or US-20100079076-\$ or US-20150223303-\$ or US-20130221867-\$ or US-20080290814-\$ or US-20070228999-\$ or US-20150351171-\$ or US-20160091147-\$ or US-20160381760-\$ or US-20160323948-\$ or US-20160270184-\$ or US-20160270166-\$ or US-20160270165-\$ or US-20160219658-\$).did. or (US-20160316533-\$ or US-20120147598-\$ or US-20110121756-\$ or US-20170105263-\$ or US-20170102114-\$ or US-20170094746-\$ or US-20160219672-\$ or US-20170311398-\$ or US-20170211753-\$ or US-20170089530-\$ or US-20050110607-\$ or US-20150334790-\$ or US-20110309745-\$ or US-20130230995-\$ or US-20110260622-\$ or US-20090027916-\$ or US-20070133202-\$ or US-20170347423-\$ or US-20170231056-\$ or US-20170164434-\$ or US-20160270162-\$ or US-20160255699-\$ or US-20150181661-\$ or US-20160178137-\$ or US-20120319578-\$ or US-20120051039-\$ or US-20160186969-\$).did. or (US-20160057825-\$ or US-20160057824-\$ or US-20150198318-\$ or US-20100290218-\$ or US-20170234519-\$ or US-20100253226-\$ or US-20160215937-\$ or US-20150049475-\$ or US-20130039051-\$ or US-20130009497-\$ or US-20100181932-\$ or US-20160081147-\$ or US-20100277918-\$ or US-20120212951-\$ or US-20130215609-\$ or US-20120146503-\$).did. or (US-5777439-\$ or US-5606224-\$ or US-8896207-\$ or US-9629216-\$ or US-9629215-\$ or US-9629211-\$ or US-9609711-\$ or US-8870415-\$ or US-5815627-\$ or US-9759391-\$ or US-8956013-\$ or US-7049761-\$ or US-9775215-\$ or US-	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	OFF	2019/09/16 07:22

		9756698-\$ or US-9277603-\$ or US-9163818-\$ or US-9835312-\$ or US-9807826-\$ or US-9625137-\$ or US-3841730-\$ or US-9781805-\$ or US-8459831-\$ or US-6246167-\$ or US-9447929-\$ or US-9955587-\$ or US-9945520-\$).did. or (US-9903577-\$ or US-9927071-\$ or US-9970640-\$ or US-8849167-\$ or US-9288867-\$).did. or (WO-2010054523-\$ or EP-2432297-\$ or CA-2532763-\$ or CN-203216334-\$ or CN-104168696-\$ or CN-202261914-\$ or CN-202852551-\$ or WO-2009140840-\$).did. or (WO-2009140840-\$).did. or (US-20120161650-\$ or CN-202190446-\$ or KR-1040833-\$ or CN-101998726-\$ or CN-201726573-\$ or CN-1688186-\$ or EP-2533607-\$ or US-20120286663-\$ or CN-102711329-\$ or CN-202425143-\$ or DE-102010029100-\$ or US-20110057572-\$ or US-20160381746-\$ or JP-2001199415-\$ or JP-2005122906-\$ or CN-206582587-\$ or KR-2009118147-\$ or KR-884279-\$ or DE-202017000504-\$ or DE-202012011550-\$ or US-20170089530-\$ or WO-2016074140-\$ or CN-204704694-\$).did.				
S195	11	(glass adj tub\$3) and ((end adj wall) near10 (insulating adj material)) and (lamp luminaire illumination light\$3)	US-PGPUB; USPAT	OR	ON	2019/09/16 07:30
S197	0	S191 and ((end adj wall) near10 (insulating adj material))	US-PGPUB; USPAT	OR	ON	2019/09/16 07:32
S198	12042	(glass adj tub\$3) same (lamp luminaire illumination light\$3)	US-PGPUB; USPAT	OR	ON	2019/09/16 07:33
S199	245	(glass adj tub\$3) same (lamp luminaire illumination light\$3) same (end adj caps)	US-PGPUB; USPAT	OR	ON	2019/09/16 07:34
S200	10	(glass adj tub\$3) same (lamp luminaire illumination light\$3) same (end adj caps) same ((printed adj circuit adj board) pcb.u/c.)	US-PGPUB; USPAT	OR	ON	2019/09/16 07:36
S201	12	(glass adj tub\$3) same (lamp luminaire illumination light\$3) same (end adj caps) same ((printed adj circuit adj board) pcb.u/c.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/09/16 07:38
S202	105	(glass adj tub\$3) same (lamp luminaire illumination light\$3) same (end adj caps) same (fluorescent adj lamp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/09/16 07:41
S203	3	(glass adj tub\$3) same (end adj caps) same (LED.u/c. adj fluorescent adj lamp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/09/16 07:43

			DERWENT; IBM_TDB			
S204	134	(glass adj tub\$3) same (LED.u/c. adj fluorescent adj lamp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/09/16 07:43
S205	99	(glass adj tub\$3) near10 (LED.u/c. adj fluorescent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/09/16 07:54
S206	0	("10426003").PN.	USPAT; USOCR	OR	OFF	2019/09/16 10:06
S207	1	((("10426003") or ("10021742")).PN.	USPAT; USOCR	OR	OFF	2019/09/16 10:08
S208	2	((("10426003") or ("10021742") or ("20190230756")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 10:11

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12	(tube and (two adj ends) and (end adj wall) and (insulating adj material)).clm.	US-PGPUB; USPAT	OR	ON	2019/09/16 11:12
L2	1	(tube and (two adj ends) and (end adj wall) and (printed adj circuit adj board) and (insulating adj material)).clm.	US-PGPUB; USPAT	OR	ON	2019/09/16 11:14
S29	1	(bi-pin and (filament adj simulating adj circuit)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/23 10:04
S31	1	(bi-pin and (third adj capacitance)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/23 10:05
S32	1	(bi-pin and (first adj capacitance)).clm.	US-PGPUB; USPAT	OR	ON	2016/05/23 10:05
S60	11	(filament-simulating adj circuit).clm.	US-PGPUB; USPAT	OR	ON	2017/04/28 09:12
S127	6	((lamp adj tube) and (heat adj shrink)).clm.	US-PGPUB; USPAT	OR	ON	2018/02/28 09:05
S128	1	((lamp adj tube) and (four adj filtering adj units)).clm.	US-PGPUB; USPAT	OR	ON	2018/02/28 09:08
S167	33	((two adj end adj caps) and (power adj supply) and (light adj strip)).clm.	US-PGPUB; USPAT	OR	ON	2018/10/12 11:38
S168	3	((two adj end adj caps) and (end adj wall adj radius)).clm.	US-PGPUB; USPAT	OR	ON	2018/10/12 11:39

S169	3	((two adj end adj caps) and (power adj supply) and (end adj wall adj radius)).clm.	US-PGPUB; USPAT	OR	ON	2018/10/12 11:40
S170	5	((two adj end adj caps) and (power adj supply) and (lateral adj wall)).clm.	US-PGPUB; USPAT	OR	ON	2018/10/12 11:42
S171	3	((two adj end adj caps) and (power adj supply) and (end adj wall adj radius)).clm.	US-PGPUB; USPAT	OR	ON	2018/10/12 11:44
S184	3	(tube and (power adj supply) and (end adj cap) and (heat-dissipating adj element)).clm.	US-PGPUB; USPAT	OR	ON	2019/02/22 10:40

9/ 16/ 2019 11:18:38 AM
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/373,200	04/02/2019	2844	9920	6246-40007US13	52	3

CONFIRMATION NO. 5268

CORRECTED FILING RECEIPT



25570
Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

Date Mailed: 11/21/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

TAO JIANG, Zhejiang, CHINA;
QIFENG YE, Zhejiang, CHINA;
YUEQIANG ZHANG, Zhejiang, CHINA;

Applicant(s)

JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO.,LTD, Zhejiang, CHINA;

Power of Attorney: The patent practitioners associated with Customer Number 25570

Domestic Priority data as claimed by applicant

This application is a CON of 15/888,335 02/05/2018 PAT 10426003
which is a CON of 15/643,034 07/06/2017 PAT 10021742
which is a CIP of 15/258,068 09/07/2016 PAT 9723662
which is a CON of 14/699,138 04/29/2015 PAT 9480109
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which is a CON of 14/865,387 09/25/2015 PAT 9609711
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is a CIP of 15/211,783 07/15/2016 PAT 9885449
which is a CIP of 15/087,088 03/31/2016 PAT 9879852
and said 15/643,034 07/06/2017
is a CIP of 15/483,368 04/10/2017 PAT 9945520
which is a CON of 15/211,717 07/15/2016 PAT 9618168
which is a CIP of 15/056,121 02/29/2016 PAT 9447929

and said 15/643,034 07/06/2017
is a CIP of 15/168,962 05/31/2016
which is a CIP of PCT/CN2015/096502 12/05/2015
and is a CIP of 15/087,092 03/31/2016 PAT 10082250
and said 15/643,034 07/06/2017
is a CIP of 15/055,630 02/28/2016 PAT 9781805
and is a CIP of 15/339,221 10/31/2016 PAT 9939140
which is a CIP of 15/210,989 07/15/2016 PAT 9587817
which is a CIP of 15/205,011 07/08/2016 PAT 9629211
which is a CIP of 15/150,458 05/10/2016 PAT 9794990
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is a CIP of 15/066,645 03/10/2016 PAT 9497821
which is a CIP of 14/865,387 09/25/2015 PAT 9609711

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CHINA 201410507660.9 09/28/2014 No Access Code Provided
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CHINA 201510193980.6 04/22/2015 No Access Code Provided
CHINA 201510259151.3 05/19/2015 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

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If Required, Foreign Filing License Granted: 04/16/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/373,200**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

LED TUBE LAMP

Preliminary Class

315

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No**PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/373,200	04/02/2019	2844	9920	6246-40007US13	52	3

CONFIRMATION NO. 5268

CORRECTED FILING RECEIPT



0000000113190228

25570

Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

Date Mailed: 12/10/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Power of Attorney: The patent practitioners associated with Customer Number 25570

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CHINA 201510338027.6 06/17/2015 No Access Code Provided
CHINA 201510364735.7 06/26/2015 No Access Code Provided
CHINA 201510372375.5 06/26/2015 No Access Code Provided
CHINA 201510373492.3 06/26/2015 No Access Code Provided
CHINA 201510378322.4 06/29/2015 No Access Code Provided
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CHINA 201510428680.1 07/20/2015 No Access Code Provided
CHINA 201510448220.5 07/27/2015 No Access Code Provided
CHINA 201510482944.1 08/07/2015 No Access Code Provided
CHINA 201510483475.5 08/08/2015 No Access Code Provided
CHINA 201510486115.0 08/08/2015 No Access Code Provided
CHINA 201510499512.1 08/14/2015 No Access Code Provided
CHINA 201510530110.3 08/26/2015 No Access Code Provided
CHINA 201510555543.4 09/02/2015 No Access Code Provided
CHINA 201510557717.0 09/06/2015 No Access Code Provided
CHINA 201510595173.7 09/18/2015 No Access Code Provided
CHINA 201510617370.4 09/25/2015 No Access Code Provided

CHINA 2015106456134.3 10/08/2015 No Access Code Provided
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CHINA 201510705222.8 10/27/2015 No Access Code Provided
CHINA 201510716899.1 10/29/2015 No Access Code Provided
CHINA 201510724263.1 10/29/2015 No Access Code Provided
CHINA 201510726365.7 10/30/2015 No Access Code Provided
CHINA 201510726484.2 10/30/2015 No Access Code Provided
CHINA 201510868263.9 12/02/2015 No Access Code Provided
CHINA 201510903680.2 12/09/2015 No Access Code Provided
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CHINA 201610044148.4 01/22/2016 No Access Code Provided
CHINA 201610050944.9 01/26/2016 No Access Code Provided
CHINA 201610051691.7 01/26/2016 No Access Code Provided
CHINA 201610085895.2 02/15/2016 No Access Code Provided
CHINA 201610087627.4 02/16/2016 No Access Code Provided
CHINA 201610098424.5 02/23/2016 No Access Code Provided
CHINA 201610120993.5 03/03/2016 No Access Code Provided

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/373,200**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
Title

LED TUBE LAMP

Preliminary Class

315

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international

patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) : Tao Jiang

Group Art Unit: 2844

Appl. No. : 16/373,200

Examiner: VIBOL TAN

Filed : April 2, 2019

Confirmation No.: 5268

For : LED TUBE LAMP

STATEMENT CONCERNING PRIORITY

U.S. Patent and Trademark Office
Customer Service Window, Mail Stop _____
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

For the 68 foreign priorities listed in the ADS form, the priority documents of the said foreign priorities had been retrieved from the parent application (Appl. No. 15/888,335). An Acknowledgement is made in the Notice of Allowances issued on September 25, 2019, that the certified copies of the priority documents have been received. Accordingly, Applicant has complied with the requirements under 35 U.S.C. §119, and that all priorities having been received and acknowledged, are valid.

Applicant requests a confirmation from the USPTO that the present application has complied with 35 U.S.C. §119.

Respectfully submitted,

Li-Qin LI et al.



Andrew M. Calderon

Registration No. 38,093

Roberts, Mlotkowski, Safran, Cole & Calderon PC
P.O. Box 10064
McLean, VA 22102
Phone: 703.584.8023
Fax: 703.848.2981
Email: acalderon@rmssc2.com

Electronic Acknowledgement Receipt

EFS ID:	38109432
Application Number:	16373200
International Application Number:	
Confirmation Number:	5268
Title of Invention:	LED TUBE LAMP
First Named Inventor/Applicant Name:	TAO JIANG
Customer Number:	25570
Filer:	Andrew Michael Calderon/Jennifer Velasquez
Filer Authorized By:	Andrew Michael Calderon
Attorney Docket Number:	6246-40007US13
Receipt Date:	20-DEC-2019
Filing Date:	02-APR-2019
Time Stamp:	17:00:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	6246-40007US13_StatementConcerningPriority_12-20-19.pdf	35463 91e5fdeba90fffd128809346d2185d23d49b47b85	no	1

Warnings:

Information:	
Total Files Size (in bytes):	35463
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/373,200	04/02/2019	2844	9920	6246-40007US13	52	3

CONFIRMATION NO. 5268

CORRECTED FILING RECEIPT



0000000113495029

25570

Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

Date Mailed: 12/23/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

TAO JIANG, Zhejiang, CHINA;
QIFENG YE, Zhejiang, CHINA;
YUEQIANG ZHANG, Zhejiang, CHINA;

Applicant(s)

JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO.,LTD, Zhejiang, CHINA;

Power of Attorney: The patent practitioners associated with Customer Number 25570

Domestic Priority data as claimed by applicant

This application is a CON of 15/888,335 02/05/2018 PAT 10426003
which is a CON of 15/643,034 07/06/2017 PAT 10021742
which is a CIP of 15/258,068 09/07/2016 PAT 9723662
which is a CON of 14/699,138 04/29/2015 PAT 9480109
and said 15/643,034 07/06/2017
is a CIP of 15/298,955 10/20/2016 PAT 9845923
which is a CON of 14/865,387 09/25/2015 PAT 9609711
and said 15/643,034 07/06/2017
is a CIP of 15/211,783 07/15/2016 PAT 9885449
which is a CIP of 15/087,088 03/31/2016 PAT 9879852
and said 15/643,034 07/06/2017
is a CIP of 15/483,368 04/10/2017 PAT 9945520
which is a CON of 15/211,717 07/15/2016 PAT 9618168
which is a CIP of 15/056,121 02/29/2016 PAT 9447929

and said 15/643,034 07/06/2017
 is a CIP of 15/168,962 05/31/2016
 which is a CIP of PCT/CN2015/096502 12/05/2015
 and is a CIP of 15/087,092 03/31/2016 PAT 10082250
 and said 15/643,034 07/06/2017
 is a CIP of 15/055,630 02/28/2016 PAT 9781805
 and is a CIP of 15/339,221 10/31/2016 PAT 9939140
 which is a CIP of 15/210,989 07/15/2016 PAT 9587817
 which is a CIP of 15/205,011 07/08/2016 PAT 9629211
 which is a CIP of 15/150,458 05/10/2016 PAT 9794990
 which is a CIP of 14/865,387 09/25/2015 PAT 9609711
 and is a CIP of 14/699,138 04/29/2015 PAT 9480109
 and said 15/210,989 07/15/2016
 is a CIP of 15/066,645 03/10/2016 PAT 9497821
 which is a CIP of 14/865,387 09/25/2015 PAT 9609711

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

CHINA 201410507660.9 09/28/2014 No Access Code Provided
 CHINA 201410508899.8 09/28/2014 No Access Code Provided
 CHINA 201410623355.6 11/06/2014 No Access Code Provided
 CHINA 201410734425.5 12/05/2014 No Access Code Provided
 CHINA 201420602526.2 10/17/2014 No Access Code Provided
 CHINA 201510075925.7 02/12/2015 No Access Code Provided
 CHINA 201510104823.3 03/10/2015 No Access Code Provided
 CHINA 201510134586.5 03/26/2015 No Access Code Provided
 CHINA 201510136796.8 03/27/2015 No Access Code Provided
 CHINA 201510155807.7 04/03/2015 No Access Code Provided
 CHINA 201510173861.4 04/14/2015 No Access Code Provided
 CHINA 201510193980.6 04/22/2015 No Access Code Provided
 CHINA 201510259151.3 05/19/2015 No Access Code Provided
 CHINA 201510268927.8 05/22/2015 No Access Code Provided
 CHINA 201510324394.0 06/12/2015 No Access Code Provided
 CHINA 201510338027.6 06/17/2015 No Access Code Provided
 CHINA 201510364735.7 06/26/2015 No Access Code Provided
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 CHINA 201510373492.3 06/26/2015 No Access Code Provided
 CHINA 201510378322.4 06/29/2015 No Access Code Provided
 CHINA 201510391910.1 07/02/2015 No Access Code Provided
 CHINA 201510406595.5 07/10/2015 No Access Code Provided
 CHINA 201510428680.1 07/20/2015 No Access Code Provided
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 CHINA 201510482944.1 08/07/2015 No Access Code Provided
 CHINA 201510483475.5 08/08/2015 No Access Code Provided
 CHINA 201510486115.0 08/08/2015 No Access Code Provided
 CHINA 201510499512.1 08/14/2015 No Access Code Provided
 CHINA 201510530110.3 08/26/2015 No Access Code Provided
 CHINA 201510555543.4 09/02/2015 No Access Code Provided
 CHINA 201510557717.0 09/06/2015 No Access Code Provided
 CHINA 201510595173.7 09/18/2015 No Access Code Provided
 CHINA 201510617370.4 09/25/2015 No Access Code Provided

CHINA 201510645134.3 10/08/2015 No Access Code Provided
CHINA 201510651572.0 10/10/2015 No Access Code Provided
CHINA 201510705222.8 10/27/2015 No Access Code Provided
CHINA 201510716899.1 10/29/2015 No Access Code Provided
CHINA 201510724263.1 10/29/2015 No Access Code Provided
CHINA 201510726365.7 10/30/2015 No Access Code Provided
CHINA 201510726484.2 10/30/2015 No Access Code Provided
CHINA 201510868263.9 12/02/2015 No Access Code Provided
CHINA 201510903680.2 12/09/2015 No Access Code Provided
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CHINA 201610085895.2 02/15/2016 No Access Code Provided
CHINA 201610087627.4 02/16/2016 No Access Code Provided
CHINA 201610098424.5 02/23/2016 No Access Code Provided
CHINA 201610120993.5 03/03/2016 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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If Required, Foreign Filing License Granted: 04/16/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/373,200**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
Title

LED TUBE LAMP

Preliminary Class

315

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

25570 7590 09/25/2019
Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/373,200	04/02/2019	TAO JIANG	6246-40007US13	5268

TITLE OF INVENTION: LED TUBE LAMP

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	12/26/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
TAN, VIBOL	2844	315-205000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Andrew M. Calderon
2 Roberts Mlotkowski Safran
Cole & Calderon, P.C.
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO.,LTD ZHEJIANG, CN

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☒ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-2478

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Andrew M. Calderon/ Date December 23, 2019

Typed or printed name Andrew M. Calderon Registration No. 38,093

Electronic Patent Application Fee Transmittal				
Application Number:		16373200		
Filing Date:		02-Apr-2019		
Title of Invention:		LED TUBE LAMP		
First Named Inventor/Applicant Name:		TAO JIANG		
Filer:		Andrew Michael Calderon/Jennifer Velasquez		
Attorney Docket Number:		6246-40007US13		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
UTILITY APPL ISSUE FEE	1501	1	1000	1000
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt

EFS ID:	38120996
Application Number:	16373200
International Application Number:	
Confirmation Number:	5268
Title of Invention:	LED TUBE LAMP
First Named Inventor/Applicant Name:	TAO JIANG
Customer Number:	25570
Filer:	Andrew Michael Calderon/Jennifer Velasquez
Filer Authorized By:	Andrew Michael Calderon
Attorney Docket Number:	6246-40007US13
Receipt Date:	23-DEC-2019
Filing Date:	02-APR-2019
Time Stamp:	15:29:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	E2019BMF30467735
Deposit Account	502478
Authorized User	Jennifer Velasquez

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.20 (Post Issuance fees)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	6246-40007US13_IssueFeePayment_12-23-19.pdf	88365	no	1
			6c75eafaf3884ed7c00b65a62de110aa41c9f938		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32192	no	2
			aecf87a21bbbc826737ed3b5fa8bd02cf5ba7870		
Warnings:					
Information:					
Total Files Size (in bytes):			120557		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/373,200	04/02/2019	TAO JIANG	6246-40007US13	5268

7590 12/30/2019
Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

EXAMINER

TAN, VIBOL

ART UNIT PAPER NUMBER

2844

DATE MAILED: 12/30/2019

PRIORITY ACKNOWLEDGMENT

- ☐ 1. Receipt is acknowledged of priority papers submitted under 35 U.S.C. 119. The papers have been placed of record in the file.
- ☒ 2. Applicant's claim for priority, based on papers filed in parent Application Number 15/088,335 submitted under 35 U.S.C. 119, is acknowledged.
- ☐ 3. The priority papers, submitted _____, after payment of the issue fee are
- ☐ acknowledged
While the priority claim or certified copy filed will be placed in the file record, neither will be reviewed and the patent when published will not include the priority claim.
See 37 CFR 1.55(a)(2).
- ☐ not acknowledged since the processing fee in 37 CFR 1.17(i) has not been received.
- ☐ 4. For utility and plant applications filed on or after November 29, 2000, the priority claim is not entered because the claim was not presented within the time limit required by 37 CFR 1.55(a)(1). A petition to accept a delayed claim for priority under 35 U.S.C. 119(a) - (d) or (f), or 365(a) may be filed. See 37 CFR 1.55(c) and MPEP 201.14(a).

C. Garner

571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Data Management

for

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	
First Named Inventor	TAO JIANG
Art Unit	
Examiner Name	
Attorney Docket Number	6246-40007US13

	5	20140009923	A1	2014-01-09	WU TAN CHIH & YANG FU PAO	
Change(s) applied to document, /D.M./ 11/19/2019	7	20130033888	A1	2013-02-07	KONINKLIJKE PHILIPS ELECTRONICS N V Van Der Wel, et al.	
	7	20130250565	A1	2013-09-26	DELTA ELECTRONICS, INC Chiang, et al.	
	8	20100066230	A1	2010-03-18	Kuo-Len LIN et al.	
	9	20110084608	A1	2011-04-14	MO CONTROLS CORPORATION Lin, et al.	
	10	20100220469	A1	2010-09-02	LUMISYS, INC. Ivey, et al.	
	11	20100201269	A1	2010-08-12	LEXTAR ELECTRONICS CORP. Tzou, et al.	
	12	20080055894	A1	2008-03-06	DENG JIA H. et al.	
	13	20120069556	A1	2012-03-22	OSRAM GMBH Bertram, et al.	
	14	20150176770	A1	2015-06-25	CREE, INC. Wilcox, et al.	
	15	20040189218	A1	2004-09-30	Susan J. Leong; John Kit	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	
First Named Inventor	TAO JIANG
Art Unit	
Examiner Name	
Attorney Docket Number	6246-40007US13

Change(s) applied
to document,

/D.M./

11/20/2019

60	20130230995	A1	2013-09-05	LUMISYS, INC. Ivey, et al.
61	20110038146	A1	2011-02-17	YANCHENG HAOMALLIGHTING SCI & TECH Chen
62	20130215609	A1	2013-08-22	VERTICIL ELECTRONICS CORPORATION Liu, et al.

If you wish to add additional U.S. Published Application citation information please click the Add button.

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FOREIGN PATENT DOCUMENTS

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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2014045523	WO	A1	2014-03-27	PANASONIC CORP		×
	2	2014154479	JP	A	2014-08-25	EREBAMU KK		☒
	3	204879985	CN	U	2015-12-16	PANASONIC IP MAN CO LTD		☒
	4	204693095	CN	U	2015-10-07	JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO LTD		☒
	5	205447315	CN	U	2016-08-10	JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO.,LTD		☒
	6	201954350	CN	U	2011-08-31	YUANGUI LIU		☒

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	
First Named Inventor	TAO JIANG
Art Unit	
Examiner Name	
Attorney Docket Number	6246-40007US13

Change(s) applied
to document,

/D.M./

11/20/2019

49	20110084627	A1	2011-04-14	THE SLOAN COMPANY, INC. DBA SLOANLED Sloan, et al.
50	20110309745	A1	2011-12-22	LEDS AMERICA, INC. Westermarck, et al.
51	20130069538	A1	2013-03-21	YU-SHENG SO
52	20130258650	A1	2013-10-03	Streamlight, Inc. Sharrah
53	20050185396	A1	2005-08-25	Murray Kutler
54	20130135852	A1	2013-05-30	HONG KONG PATENT EXCHANGE LIMITED Chan, et al.
55	20170290119	A1	2017-10-05	XIONG AIMING et al.
56	20150070885	A1	2015-03-12	PETRO ALFRED et al.
57	20100277918	A1	2010-11-04	POWER DATA COMMUNICATIONS CO., LTD. Chen, et al.
58	20120051039	A1	2012-03-01	CHANG SHAO HAN
59	20090219713	A1	2009-09-03	Dennis Siemiet et al.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
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First Named Inventor	TAO JIANG
Art Unit	
Examiner Name	
Attorney Docket Number	6246-40007US13

Change(s) applied
to document,

/D.M./

11/20/2019

38	20160091147	A1	2016-03-31	Jiaxing Super Lighting Electric Appliance Co., Ltd Jiang, et al.
39	20120049684	A1	2012-03-01	AVANTIS LTD. Bodenstein, et al.
40	20120212951	A1	2012-08-23	Lextar Electronics Corporation Lai, et al.
41	20100124054	A1	2010-05-20	TAIWAN RODAN CO., LTD. Chen, et al.
42	20070001709	A1	2007-01-04	SUZHOU INDUSTRIAL PARK TONY LIGHTING TECHNOLOGY CO Shen
43	20120319150	A1	2012-12-20	KABUSHIKI KAISHA TOSHIBA, TOKYO Shimomura, et al.
44	20140153231	A1	2014-06-05	OSRAM OMBH Bittmann
45	20130293098	A1	2013-11-07	LI, YI-QUN et al.
46	20130033881	A1	2013-02-07	SHARP KABUSHIKI KAISHA Terazawa, et al.
47	20110175536	A1	2011-07-21	IRIS OHYAMA INC. Fujita, et al.
48	20090040415	A1	2009-02-12	SAMSUNG DISPLAY CO., LTD. Kim

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	
First Named Inventor	TAO JIANG
Art Unit	
Examiner Name	
Attorney Docket Number	6246-40007US13

	27	20120026761	A1	2012-02-02	YOUNG JAMES ROY	
Change(s) applied to document, /D.M./ 11/20/2019	28	20140192526	A1	2014-07-10	NINGBO FUTAI ELECTRIC LIMITED Qiu	
	29	20090159919	A1	2009-06-25	ALTAIR ENGINEERING, INC. Simon, et al.	
	30	20030189829	A1	2003-10-09	Matsushita Electric Industrial Co., Ltd. Shimizu, et al.	
	31	20130223053	A1	2013-08-29	VERTICIL ELECTRONICS CORPORATION Liu, et al.	
	32	20080192476	A1	2008-08-14	KABUSHIKI KAISHA MIRAI Hiratsuka	
	33	20130051008	A1	2013-02-28	SHEW LARRY N	
	34	20110084554	A1	2011-04-14	TIAN FENG	
	35	20130135857	A1	2013-05-30	CHEN, CHIA-CHIN et al.	
	36	20130256704	A1	2013-10-03	TANG GUOFU & HSIAO YUCHUN	
	37	20080290814	A1	2008-11-27	KIT JOHN & LEONG SUSAN J	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T./

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	
First Named Inventor	TAO JIANG
Art Unit	
Examiner Name	
Attorney Docket Number	6246-40007US13

Change(s) applied
to document,
/D.M./
11/20/2019

16	20110279063	A1	2011-11-17	ORION ENERGY SYSTEMS, INC. Wang, et al.
17	20130235570	A1	2013-09-12	HOOD, WILLIAM et al.
18	20160081147	A1	2016-03-17	ORECO TECH INDUSTRIES INC. Guang
19	20050162850	A1	2005-07-28	John F. Luk ; Robert M. Altman
20	20140225519	A1	2014-08-14	POESEN ELECTRONIC CO., LTD. Yu, et al.
21	20120146503	A1	2012-06-14	GREE Inc., Negley, et al.
22	20130301255	A1	2013-11-14	Lumirish Co., Ltd. Kim, et al.
23	20100253226	A1	2010-10-07	OKI ISAMU
24	20110149563	A1	2011-06-23	LIGHTEL TECHNOLOGIES INC. Hsia, et al.
25	20150345755	A1	2015-12-03	PURDY STEVEN
26	20140203717	A1	2014-07-24	GREE, INC. Zhang

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T/

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number

16/373,200 - GAU: 2844

Filing Date

4/2/19

First Named Inventor

TAO JIANG

Art Unit

2844

Examiner Name

V. Tan

Attorney Docket Number

6246-40007US13

U.S. PATENTS

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
Change(s) applied to document, /D.M./ 11/21/2019	1	7594738	B1	2009-09-29	Lin, et al. KITAGAWA HOLDINGS, LLC	
	2	9288867	B2	2016-03-15	HSIA CHUNGHO et al.	
	3	8240875	B2	2012-08-14	Roberts, et al. Cree, Inc.	
	4	10021742	B2	2018-07-10	Tao JIANG	
	5	7611260	B1	2009-11-03	Lin, Kuo-Ien	
	6	9864438	B2	2018-01-09	SEO JOON KYU et al.	
	7	6246167	B1	2001-06-12	SICA, MICHAEL F.	
	8	8360599	B2	2013-01-29	Ivey, et al. lumicycle, Inc.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T/

Notice of References Cited	Application/Control No. 16/373,200		Applicant(s)/Patent Under Reexamination JIANG et al.	
	Examiner VIBOL TAN		Art Unit 2844	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-10208898-B2	02-2019	Xiong; Aiming	F21V3/061	1/1
*	B	US-1088142-A	02-1914	Name not available Gardner		221/231
*	C	US-9885449-B2	02-2018	Jiang; Tao	F21K9/278	1/1
*	D	US-9723662-B2	08-2017	Ye; Qifeng	F21V23/009	1/1
*	E	US-20100277918-A1	11-2010	CHEN; CHIEN-YUAN	F21V23/00	362/249.02
*	F	US-20100253226-A1	10-2010	OKI; Isamu	F21V3/00	315/113
*	G	US-9288867-B2	03-2016	Hsia; Chungho	H05B33/0884	1/1
*	H	US-20090160369-A1	06-2009	Godbole; Kedar	H05B33/0815	315/307
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N	CN-201515528-U	06-2010	CN	BANGYANG FAN	
	O					
	P					
	Q					
	R					
	S					
	T					

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*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	4/2/19
First Named Inventor	TAO JIANG
Art Unit	2844
Examiner Name	V. Tan
Attorney Docket Number	6246-40007US13

U.S. PATENTS

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	8456075	B2	2013-06-04	AURALIGHT INTERNATIONAL AB Axelsson	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20050162101	A1	2005-07-28	LEONG SUSAN J. et al.	

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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²ⁱ	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	1914458	CN	A	2007-02-14	KONINKL PHILIPS ELECTRONICS NV		×
	2	203686635	CN	U	2014-07-02	JIANGSU TIWIN OPTOELECTRONIC TECHNOLOGY CO LTD		☒
	3	2005122906	JP	A	2005-05-12	HITACHI LIGHTING LTD		☒

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T/

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16/373,200 - GAU: 2844
Filing Date	
First Named Inventor	TAO JIANG
Art Unit	
Examiner Name	
Attorney Docket Number	6246-40007US13

Change(s) applied to document, /D.M./ 11/26/2019	9625137	B2	2017-04-18	JIA XING SUPER LIGHTING ELECTRIC APPLIANCE CO., LTD. Li, et al.
10	7067032	B1	2006-06-27	A RAYMOND & CIE Bremont, et al.
11	9000668	B2	2015-04-07	Fujun Qiu
12	9448660	B2	2016-09-20	SEO JOON KYU et al.
13	9322531	B2	2016-04-26	Chun-wei Liang et al.

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20130050998	A1	2013-02-28	GT BIOMECILT LIGHT Chu, et al.	
	2	20110305021	A1	2011-12-15	Shao Han Chang Xin	
	3	20140331532	A1	2014-11-13	ALMAX MFG CORP Deppiesse	
	4	20130021809	A1	2013-01-24	OSRAM GMBH Dellian, et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.T/



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/373,200	02/11/2020	10560989	6246-40007US13	5268

25570 7590 01/22/2020

Roberts Mlotkowski Safran Cole & Calderon, P.C.
7918 Jones Branch Drive
Suite 500
McLean, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

TAO JIANG, Zhejiang, CHINA;
JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO.,LTD, Zhejiang, CHINA;
QIFENG YE, Zhejiang, CHINA;
YUEQIANG ZHANG, Zhejiang, CHINA;

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AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
filed in the U.S. District Court Western District of Texas on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:20-cv-00018-ADA	DATE FILED 1/10/2020	U.S. DISTRICT COURT Western District of Texas
PLAINTIFF JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO., LTD. AND OBERT, INC.		DEFENDANT CH LIGHTING TECHNOLOGY CO., LTD., ELLIOTT ELECTRIC SUPPLY INC. AND SHAOXING RUISING LIGHTING CO., LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 10,295,125	5/21/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
2 10,342,078	7/2/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
3 10,352,540	7/16/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
4 10,426,003	9/24/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED 3/16/2020	INCLUDED BY ☒ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,939,140	4/10/2018	Jiaxing Super Lighting Electric Appliance Co., Ltd.
2 10,378,700	8/13/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
3 10,448,479	10/15/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
4 10,560,989	2/11/2020	Jiaxing Super Lighting Electric Appliance Co., Ltd.
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:22-cv-00534	DATE FILED 9/16/2022	U.S. DISTRICT COURT Western District of Texas
PLAINTIFF JIAXING SUPER LIGHTING ELECTRIC APPLIANCE CO., LTD. AND OBERT, INC.		DEFENDANT CURRENT LIGHTING SOLUTIONS, LLC D/B/A GE CURRENT
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,841,174	12/12/2017	Jiaxing Super Lighting Electric Appliance Co., Ltd.
2 9,939,140	4/10/2018	Jiaxing Super Lighting Electric Appliance Co., Ltd.
3 10,295,125	5/21/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
4 11,112,068	9/7/2021	Jiaxing Super Lighting Electric Appliance Co., Ltd.
5		*See Attachment "A" for Additional Patents

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

ATTACHMENT A**AO 120 - Additional Patents for Reporting**

Patent No.	Date of Patent	Holder of Patent
9,723,662	08/01/2017	Jiaxing Super Lighting Electric Appliance Co., Ltd.
9,945,520	04/17/2018	Jiaxing Super Lighting Electric Appliance Co., Ltd.
10,487,991	11/26/2019	Jiaxing Super Lighting Electric Appliance Co., Ltd.
10,560,989	02/11/2020	Jiaxing Super Lighting Electric Appliance Co., Ltd.
10,830,397	11/10/2020	Jiaxing Super Lighting Electric Appliance Co., Ltd.
10,897,801	01/19/2021	Jiaxing Super Lighting Electric Appliance Co., Ltd.
11,441,742	09/13/2022	Jiaxing Super Lighting Electric Appliance Co., Ltd.