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## Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

## Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

## (88) Date of publication of the international search report:

3 September 2015

## (54) Title: LED LAMP

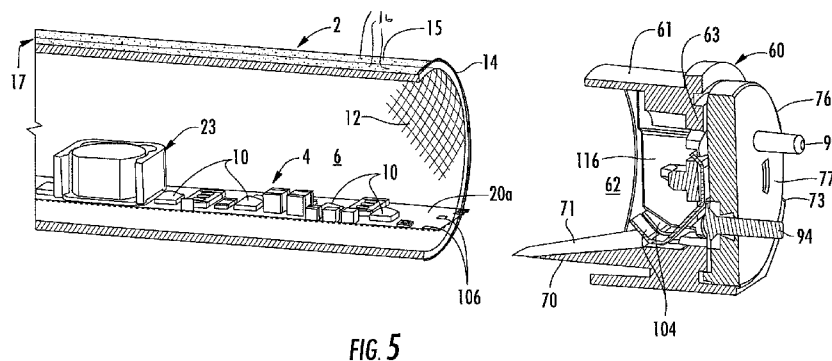


FIG. 5

(57) Abstract: A lamp (1) comprising a tube (2) that is at least partially optically transmissive, an LED (10) mounted on a substrate (20) positioned in the tube (2) and being operable to emit light through the tube (2) when energized through an electrical path, pins (94) being in the electrical path, an electrical conductor (104) electrically coupling the pins (94) to the electrical path, the electrical conductor (104) being biased into engagement with an electrical contact (106) on the substrate (20). The substrate (20) may be secured to the tube (2) by an adhesive. The substrate (20) may be secured to the end caps (60) and be suspended in the tube (2).

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2014/070561

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. F21K99/00 F21V23/06 ADD. F21V19/00 F21V19/02 F21Y101/02 F21Y103/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) F21K F21V F21Y  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2013/301255 A1 (KIM HA-CHUL [KR] ET AL) 14 November 2013 (2013-11-14) paragraphs [0034] - [0074]; figures 1-6 -----	1-24
A	EP 2 615 357 A2 (JUSTENERGY TECHNOLOGY CORP [TW]) 17 July 2013 (2013-07-17) paragraphs [0012] - [0017]; figures 1-4 -----	1-24
A	US 2011/235320 A1 (CAI XIANGFA [CN] ET AL) 29 September 2011 (2011-09-29) paragraphs [0019] - [0025]; figures 1-5 -----	1-24
A	US 2011/085335 A1 (OSAWA HIDEHARU [JP]) 14 April 2011 (2011-04-14) paragraphs [0020] - [0038]; figures 1-4 -----	1-24
A	US 2011/194278 A1 (YANG HE-SHUN [TW] ET AL) 11 August 2011 (2011-08-11) paragraphs [0045] - [0074]; figures 1-8 -----	1-24
<div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Further documents are listed in the continuation of Box C.</span> <span><input checked="" type="checkbox"/> See patent family annex.</span> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>* Special categories of cited documents :</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search  <div style="text-align: center; font-size: 1.2em;">24 February 2015</div>		Date of mailing of the international search report  <div style="text-align: center; font-size: 1.2em;">22/06/2015</div>
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer  <div style="text-align: center; font-size: 1.2em;">Menn, Patrick</div>

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2014/070561

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-24

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-24

Elongated LED lamp with rotatable cap.

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2. claims: 25-44

Elongated LED lamp with the LED being mounted on a flex circuit/substrate.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2014/070561

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