

Title (en)
LIGHT-EMITTING DIODE LIGHT BULB STRUCTURE

Title (de)
LEUCHTDIODENGLÜHLAMPENSTRUKTUR

Title (fr)
STRUCTURE D'AMPOULE LUMINEUSE À DIODES ÉLECTROLUMINESCENTES

Publication
EP 3073175 A1 20160928 (EN)

Application
EP 16156859 A 20160223

Priority
TW 104126163 A 20150811

Abstract (en)
A light-emitting diode (LED) light bulb structure includes a glass stem (20), a first power wire (21), a second power wire (22), a first conducting bar (31), a second conducting bar (32), a first light-emitting module (40), and a second light-emitting module (50). Each of the first light-emitting module (40) and the second light-emitting module (50) has a top bar assembly, a bottom bar assembly and multiple LED filaments (41, 43, 45, 47). Both ends of each of the top bar assembly and the bottom bar assembly are respectively connected with the first conducting bar (31) and the second conducting bar (32). The LED filaments (41, 43, 45, 47) are mounted between the top and bottom bar assemblies to form an alternating U-shaped series-connected circuit loop passing through the multiple LED filaments (41, 43, 45, 47) and the top bar assembly and the bottom bar assembly.

IPC 8 full level
F21K 99/00 (2016.01); **F21Y 111/00** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP)
F21K 9/232 (2016.07); **F21Y 2107/00** (2016.07); **F21Y 2115/10** (2016.07)

Citation (applicant)
TW M389204 U 20100921 - LIQUIDLEDS LIGHTING CORP [TW]

Citation (search report)
• [A] EP 2236907 A2 20101006 - LIQUIDLEDS LIGHTING CORP [KY]
• [A] US 2014375201 A1 20141225 - SU HWA [TW], et al
• [A] CN 103899943 A 20140702 - ZHEJIANG LEDISON OPTOELECTRONICS CO LTD
• [A] US 2013058080 A1 20130307 - GE SHICHAO [CN], et al

Cited by
US2018153025A1; DE102017107004A1; EP3599413A1; WO2019054763A1; US10865947B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3073175 A1 20160928; EP 3073175 B1 20170823; ES 2641726 T3 20171113; TW 201544753 A 20151201; TW I575184 B 20170321

DOCDB simple family (application)
EP 16156859 A 20160223; ES 16156859 T 20160223; TW 104126163 A 20150811