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[Continued on next page]

(54) Title: LED CANDLE BULB AND LED CANDLE LIGHT

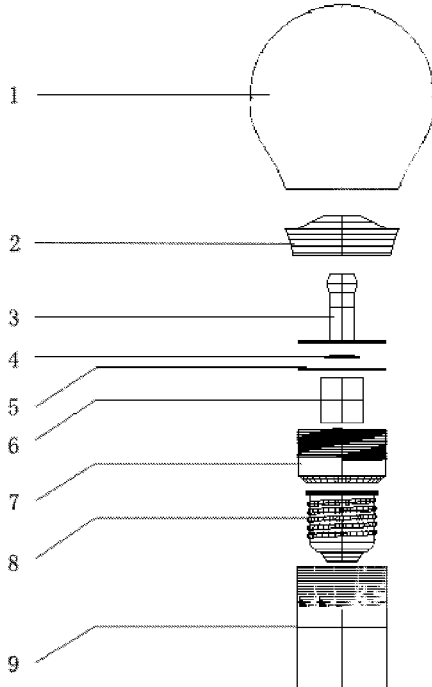


FIG. 19

(57) Abstract: The present invention is directed generally to electric lighting, and more particularly to a light emitting diode (LED) candle bulb and LED candle light. More particularly, the present invention relates to a candle light assembly comprising: a bulb enclosing a volume and having an opening at a longitudinal end, wherein the opening has an interior circumference which is threaded; a heat sink base with an opening at a longitudinal end, wherein the opening has an interior circumference which is threaded; a connector for securing the bulb to the heat sink base, which has an upper exterior threaded portion for communicating with the threaded bulb and a lower exterior threaded portion for communicating with the threaded base; and an optics assembly comprising an LED, a lens, and a drive circuit for operating the LED. The LED candle lights according to embodiments of the invention can provide bright lighting similar to that of traditional incandescent candle light without overheating.

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EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
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INTERNATIONAL SEARCH REPORT

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PCT/US2012/043981**A. CLASSIFICATION OF SUBJECT MATTER***F21V 17/00(2006.01)i, F21V 29/00(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F21V 17/00; F21V 33/00; F21V 15/01; F21V 29/00; H05B 37/02; F21V 3/00; F21S 13/02; F21V 13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords:LED,tubular housing,lamp cap,lens,connector

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 2011-0089861 A1 (ZENG YICHONG et al.) 21 April 2011 See abstract, claims 1-12, figures 1-7.	13, 14, 20, 21, 22, 23 1-12, 18 15, 16, 17, 19
Y A	US 2010-0097821 A1 (HUANG MICHELLE et al.) 22 April 2010 See abstract, claims 1-29, figures 1-21.	1-12, 18 13-17, 19-23
A	WO 2006-020839 A2 (DISNEY ENTERPRISES, INC. et al.) 23 February 2006 See abstract, claims 1-27, figures 1-22.	1-23
A	US 2008-0062703 A1 (CAO GROUP, INC.) 13 March 2008 See abstract, claims 1-25, figures 1-7.	1-23

 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search

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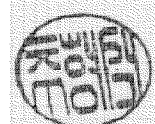
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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