

Title (en)

Latern with electric lighting means and method for operating the lantern

Title (de)

Laterne mit elektrischem Leuchtmittel und Verfahren zum Betreiben der Laterne

Title (fr)

Lanterne avec moyen d'éclairage électrique et procédé d'utilisation de la lanterne

Publication

**EP 1439120 A2 20040721 (DE)**

Application

**EP 03007635 A 20030403**

Priority

DE 10302231 A 20030120

Abstract (en)

A sensor (40) detects light intensity in a lighting device like LEDs (32). A device alters the current and/or voltage for the LEDs by relying on an output signal from the sensor, which also switches the LEDs off. The LEDs fit in a ring. A central support for the LEDs stretches along a ring axis. This support can also act as a heat sink (31). Independent claims are also included for the following: (a) An insert for a lantern with a cooling unit, sources of light and a sensor for light intensity; (b) and for a method for operating a lantern with a lighting device like LEDs.

Abstract (de)

Die Erfindung betrifft eine Laterne (10) mit mindestens einem elektrischen Leuchtmittel (32). Vorgesehen ist mindestens ein Sensor (40) zum Erfassen der Lichtstärke des Leuchtmittels. In Abhängigkeit vom Ausgangssignal des Sensors (40) werden Strom und/oder Spannung für das Leuchtmittel (32) geändert. Als Leuchtmittel sind insbesondere LEDs (32) vorgesehen. <IMAGE>

IPC 1-7

**B63B 45/04**; B60Q 1/26; F21S 8/00; F21V 5/04

IPC 8 full level

**F21S 8/00** (2006.01); **F21V 23/04** (2006.01); **F21V 29/00** (2006.01); **B63B 45/04** (2006.01)

CPC (source: EP US)

**F21V 23/0442** (2013.01 - EP); **F21V 23/0457** (2013.01 - EP); **F21V 29/70** (2015.01 - US); **F21V 29/76** (2015.01 - EP); **B63B 45/04** (2013.01 - EP); **F21W 2111/00** (2013.01 - EP); **F21W 2111/02** (2013.01 - EP); **F21W 2111/04** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by

EP2320126A1; EP1666305A1; EP2372765A1; EP1503139A3; ITVI20080215A1; EP1671061A4; JP2015074339A; ITUD20090194A1; EP2889849A1; US7521872B2; GB2409105A; GB2409105B; WO2005024898A3; WO2016083787A1; WO2007074082A1; US7712909B2; US8794797B2

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DOCDB simple family (publication)

**EP 1439120 A2 20040721**; **EP 1439120 A3 20050615**; **EP 1439120 B1 20070221**; AT E354513 T1 20070315; DE 10302231 A1 20040729; DE 50306576 D1 20070405

DOCDB simple family (application)

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