

Title (en)  
Multi-function replaceable modular LED lamp

Title (de)  
Austauschbare modulare LED-Lampe mit mehreren Funktionen

Title (fr)  
Lampe DEL modulaire remplaçable multifonction

Publication  
**EP 2273190 A1 20110112 (EN)**

Application  
**EP 09008824 A 20090706**

Priority  
EP 09008824 A 20090706

Abstract (en)  
A multi-function replaceable modular LED lamp includes a lamp base (10), a lampshade (20), a plurality of LED modules (30), a power supply control circuit board (40), and a detector (50). The lampshade is disposed on the lamp base (10). The plurality of LED modules is detachably disposed in the lamp base (10) and electrically connected to the power supply control circuit board (40). The detector (50) is detachably disposed on the lamp base (10) and electrically connected to the power supply control circuit board. The detector has a specific function, such as an earthquake detection, a human body detection, a disaster detection, an alarm detection and the like. The LED modules (30), the detector and the other parts of the present invention are replaceable with ease, which has the advantages of environmental protection and energy saving.

IPC 8 full level  
**F21V 23/04** (2006.01); **F21S 9/02** (2006.01)

CPC (source: EP US)  
**F21K 9/00** (2013.01 - EP US); **F21S 9/022** (2013.01 - EP US); **F21V 9/08** (2013.01 - EP); **F21V 23/0442** (2013.01 - EP); **F21V 19/001** (2013.01 - EP); **F21V 19/04** (2013.01 - EP); **F21V 33/0076** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (applicant)  
• US 2005195594 A1 20050908 - KURTZ JOHN D [US]  
• US 2005135103 A1 20050623 - EVANS DONALD F [US]  
• US 2008278307 A1 20081113 - LIN YUNG-FA [TW]

Citation (search report)  
• [A] US 2005195594 A1 20050908 - KURTZ JOHN D [US]  
• [A] US 2005135103 A1 20050623 - EVANS DONALD F [US]  
• [A] US 2008278307 A1 20081113 - LIN YUNG-FA [TW]

Cited by  
US2014218888A1; EP2801753A1; US2015160130A1; US9429517B2

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Designated extension state (EPC)  
AL BA RS

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