

Title (en)  
LAMP UTILIZING BAR-SHAPED LIGHT SOURCES WITH UNSAFE VOLTAGE

Title (de)  
LAMPE MIT STABFÖRMIGEN LICHTQUELLEN MIT UNSICHERER SPANNUNG

Title (fr)  
LAMPE UTILISANT DES SOURCES DE LUMIÈRE EN FORME DE BARRE AVEC UNE TENSION DANGEREUSE

Publication  
**EP 3023687 A4 20161207 (EN)**

Application  
**EP 13889678 A 20131203**

Priority  
• CN 201310304459 A 20130717  
• CN 2013088428 W 20131203

Abstract (en)  
[origin: EP3023687A1] A lamp utilizing bar-shaped light source with unsafe voltage comprises a non-isolated power supply, a bar-shaped solid light source (22), and a housing (1) for fixing the bar-shaped solid light source. For a bar-shaped LED light source with an insulating substrate, the distance between a circuit for light source and the edge around the insulating substrate is larger than or equal to the creepage distance defined in safety regulation during manufacturing. For a bar-shaped LED light source with a non-insulating substrate, an insulation spacer (4) is disposed between the light source and the housing, so that the distance between the light source and two sides of the insulation space is larger than or equal to the creepage distance defined in safety regulation. Therefore, the insulativity of the lamp is ensured. By adopting the manners of pressing the bar-shaped solid light source to cross the creepage distance and fixing its one or more ends to the housing, or by adopting a C-shaped fixing manner, the bar-shaped solid light source is fixed to the housing, thereby the security risk caused by falling of the bar-shaped solid light source from the housing or the insulation space can be avoided.

IPC 8 full level  
**F21S 2/00** (2016.01); **F21V 19/00** (2006.01); **F21V 25/00** (2006.01); **F21Y 115/10** (2016.01)

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Citation (search report)  
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• [X] DE 102011083273 A1 20130328 - ZUMTOBEL LIGHTING GMBH [AT]  
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Designated contracting state (EPC)  
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**EP 3023687 A1 20160525; EP 3023687 A4 20161207; EP 3023687 B1 20191120**; CN 104295947 A 20150121; WO 2015007043 A1 20150122

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