

Title (en)  
Illumination device and method for providing it with power

Title (de)  
Leuchtmittel und Verfahren zu dessen Stromversorgung

Title (fr)  
Moyen d'éclairage et son procédé d'alimentation en courant

Publication  
**EP 2405716 B1 20170419 (DE)**

Application  
**EP 10007123 A 20100709**

Priority  
EP 10007123 A 20100709

Abstract (en)  
[origin: EP2405716A1] The unit has a detection unit determining temperature (II) of a LED. A power controller maintains current feed of the LED within a predetermined temperature range. The controller calibrates a characteristic curve, which specifies characteristics of an electrical resistance of a LED at temperature, by determining electrical resistance of a light-unit, and a surrounding temperature. An illumination unit and the LED are impacted with voltage or current in short time. The current and/or voltage failure is measured, and the surrounding temperature is queried at a motor vehicle side. An independent claim is also included for a method for power supply of an illumination unit for a motor vehicle lamp.

IPC 8 full level  
**H05B 33/08** (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP US)  
**H05B 45/18** (2020.01 - EP US)

Citation (examination)  
MASANOBU SHIBATA: "Internal Resistance of an LED as a function of Temperature", INTERNATIONAL SCHOOL BANGKOK JOURNAL OF PHYSICS, 31 January 2010 (2010-01-31), pages 1 - 1, Retrieved from the Internet <URL:http://www.isb.ac.th/HS/JoP/vol4iss1/jan10.html>

Cited by  
EP3118279A1; EP2908609A1

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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2405716 A1 20120111; EP 2405716 B1 20170419; SI 2405716 T1 20170731**

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