

Title (en)
LED module with integrated control

Title (de)
LED-Modul mit integrierter Ansteuerung

Title (fr)
Module DEL avec commande intégrée

Publication
EP 1923626 A1 20080521 (DE)

Application
EP 07118261 A 20071011

Priority
• DE 102006054180 A 20061116
• DE 102007024390 A 20070525

Abstract (en)
The module (1) has a set of LED-components (6) and an electrical connection unit (13) that connects the LED-components with a current supply of a light assembly. Thermal contact units (2, 5) discharge heat loss of the LED-components to the light assembly. A control unit is integrated into the LED-module for controlling the LED-components. The control unit exhibits a drive circuit for controlling the LED-components individually or in group. Optical units e.g. plastic optic, are fitted into the housing. An independent claim is also included for a light assembly with a set of LED-components and a cooling body.

Abstract (de)
Die vorliegende Erfindung betrifft ein insbesondere für Kraftfahrzeuge einsetzbares LED-Modul (1) zum Einbau in ein Leuchtaggregat, wobei das LED-Modul (1) mehrere LED-Bauelemente (6), elektrische Anschlussmittel (13), über die die LED-Bauelemente (6) mit einer Stromversorgung des Leuchtaggregats verbindbar sind, und mindestens ein thermisches Kontaktelement (2, 5) umfasst, über das die Verlustwärme der wärmeleitend damit verbundenen LED-Bauelemente (6) an das Leuchtaggregat abführbar ist, und wobei eine Steuereinheit (10) zur Ansteuerung der LED-Bauelemente (6) in das LED-Modul (1) integriert ist.

IPC 8 full level
F21V 23/00 (2006.01); **F21K 99/00** (2016.01); **F21V 29/00** (2006.01); **F21Y 101/02** (2006.01); **H01L 33/00** (2006.01)

CPC (source: EP US)
F21K 9/00 (2013.01 - EP US); **F21S 45/47** (2017.12 - EP US); **F21V 23/00** (2013.01 - EP); **F21V 29/763** (2015.01 - EP); **F21V 29/767** (2015.01 - EP); **H05B 45/30** (2020.01 - EP US); **F21S 41/153** (2017.12 - EP US); **F21S 41/19** (2017.12 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (applicant)
• US 2006007013 A1 20060112 - SINGER JEFFREY M [US], et al
• WO 02097884 A1 20021205 - GELCORE LLC [US]
• WO 2004079256 A1 20040916 - SPACE CANNON VH SRL [IT], et al

Citation (search report)
• [X] WO 02097884 A1 20021205 - GELCORE LLC [US]
• [X] WO 2004079256 A1 20040916 - SPACE CANNON VH SRL [IT], et al
• [X] WO 0114789 A1 20010301 - DIALIGHT CORP [US]
• [X] US 2006012986 A1 20060119 - MAZZOCHETTE JOSEPH [US], et al
• [X] DE 19528459 A1 19970213 - GARUFO GMBH [DE]

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