

Title (en)

LED driver circuit for an automobile hand brake warning light with open- and short-circuit fault detection

Title (de)

LED-Treiberschaltung für einen Automobilhandbremswarnleuchte mit Leerlauf- und Kurzschluss-Fehlererkennung

Title (fr)

Circuit de pilote de LED pour un témoin de frein de l'automobile avec détection d'ouverture et de court-circuit défaut

Publication

**EP 2816873 A1 20141224 (EN)**

Application

**EP 13173274 A 20130621**

Priority

EP 13173274 A 20130621

Abstract (en)

A driver circuit (1) for at least one electronic component (3) driven by an electrical current generated by a corresponding main current source (6) of the driver circuit (1), said driver circuit (1) comprising a diagnostic circuit adapted to detect fault conditions of said current driven electronic component (3) in an on state of said main current source (6) and in an off state of said main current source. Specifically the at least one electronic component (3) is an LED and indicates the status of a vehicle hand brake.

IPC 8 full level

**B60Q 1/44** (2006.01); **H05B 33/08** (2006.01); **H05B 44/00** (2022.01); **H05B 45/50** (2022.01); **H05B 45/59** (2022.01)

CPC (source: EP US)

**H05B 45/10** (2020.01 - EP US); **H05B 45/50** (2020.01 - EP US); **H05B 45/58** (2020.01 - EP US); **H05B 45/59** (2022.01 - EP US)

Citation (search report)

- [IY] US 2012074845 A1 20120329 - AOKI AKIRA [JP], et al
- [Y] EP 1308362 A1 20030507 - HORLAND INNOVATIONS LTD [GB]
- [IA] US 6490512 B1 20021203 - NIGGEMANN DETLEF [DE]
- [IA] WO 2012077013 A2 20120614 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [I] EP 1458222 A1 20040915 - BRITAX P M G LTD [GB]

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2816873 A1 20141224; EP 2816873 B1 20171122**

DOCDB simple family (application)

**EP 13173274 A 20130621**