

Title (en)

Automotive lighting device with associated circuit and printed circuit board

Title (de)

Kfz.-Leuchte, Schaltungsanordnung für eine Kfz.-Leuchte und Leiterplatte für eine Kfz.-Leuchte

Title (fr)

Luminaire automobile avec circuit et plaque conductrice associés

Publication

**EP 1289341 B1 20180829 (DE)**

Application

**EP 02016583 A 20020725**

Priority

DE 10140275 A 20010816

Abstract (en)

[origin: EP1289341A2] The circuit has two supply terminals, a resistance circuit (1), a diode circuit (2) and one or more LEDs (31,32). The inputs (15,16) of the resistance circuit are directly coupled to supply terminals. To the outputs of the resistance circuit are linked the inputs (25,26) of the diode circuit, and the series-coupled LEDs are connected to the outputs of the diode circuit. Preferably the resistance circuit contains several parallel-connected branches. Independent claims are included for a circuit board and for car lamp.

IPC 8 full level

**H05B 44/00** (2022.01)

CPC (source: EP US)

**H05B 45/00** (2020.01 - EP US)

Citation (examination)

- US 5038255 A 19910806 - NISHIHASHI JUN [JP], et al
- EP 0315905 A2 19890517 - MULLER WERNER
- RUDOLF F. GRAF: "Modern Dictionary of Electronics", 1999, NEWNES, ISBN: 0-7506-9866-7, pages: 158 - 158
- TIM WILLIAMS: "The Circuit Designer's Companion", 2005, NEWNES, Great Britain, ISBN: 0-7506-6370-7, pages: 294 - 298

Cited by

CN104145406A; KR20150077598A; US7458705B2; US10257922B2; WO2004114736A3; WO2017076641A1; WO2013037452A3; US9590323B2; US9899754B2; EP2756583B1; EP2889874B1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 1289341 A2 20030305; EP 1289341 A3 20050914; EP 1289341 B1 20180829; DE 10140275 A1 20030306**

DOCDB simple family (application)

**EP 02016583 A 20020725; DE 10140275 A 20010816**