

Title (en)

COMPACT CONTROL FOR LAMPS IN A MOTOR VEHICLE

Title (de)

KOMPAKTE STEUERUNG FÜR LEUCHTMITTEL IM KFZ

Title (fr)

COMMANDE COMPACTE POUR MOYEN D'ÉCLAIRAGE DE VÉHICULE À MOTEUR

Publication

EP 4211989 A1 20230719 (DE)

Application

EP 21777701 A 20210914

Priority

- DE 102020123818 A 20200914
- EP 2021075229 W 20210914

Abstract (en)

[origin: WO2022053714A1] The invention relates to a control device for a lighting or optical signaling apparatus or an optical measuring means in vehicles. The control device comprises a data bus interface, which can be a CAN bus data bus interface, a computer core (microcontroller) and a number nLED of a plurality of driver circuits, wherein nLED is a whole positive number greater than 1. Each driver circuit is designed to be able to supply at least one lamp group with electrical power. The nLED driver circuits are thus designed to be able to supply at least nLED lamp groups with electrical power. Each lamp group comprises one or more lamps, which can comprise one or more light-emitting diodes. The data bus interface and the computer core (microcontroller) and the nLED driver circuit are accommodated on a shared semiconductor substrate.

IPC 8 full level

H05B 45/30 (2020.01); **H01L 27/00** (2006.01)

CPC (source: EP KR US)

F21S 41/192 (2018.01 - KR); **H01L 27/0922** (2013.01 - KR); **H05B 45/20** (2020.01 - KR); **H05B 45/30** (2020.01 - EP KR US); **H05B 45/48** (2020.01 - KR); **H05B 47/11** (2020.01 - US); **H05B 47/18** (2020.01 - US); **F21Y 2115/10** (2016.08 - KR); **H01L 27/0922** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022053714 A1 20220317; CN 116057704 A 20230502; CN 116057704 B 20240625; DE 112021004830 A5 20230629; EP 4211989 A1 20230719; JP 2023542502 A 20231010; JP 7515014 B2 20240711; KR 20230069110 A 20230518; US 12010773 B2 20240611; US 2023380030 A1 20231123

DOCDB simple family (application)

EP 2021075229 W 20210914; CN 202180062743 A 20210914; DE 112021004830 T 20210914; EP 21777701 A 20210914; JP 2023516477 A 20210914; KR 20237008470 A 20210914; US 202118044739 A 20210914