

Title (en)

SYSTEM AND METHOD FOR DETECTING ABNORMALITIES IN A VEHICLE LIGHTING DEVICE

Title (de)

SYSTEM UND VERFAHREN ZUR ERKENNUNG VON ANOMALIEN IN EINER FAHRZEUGBELEUCHTUNGSVORRICHTUNG

Title (fr)

SYSTÈME ET PROCÉDÉ DE DÉTECTION D'ANOMALIE DANS UN DISPOSITIF D'ÉCLAIRAGE DE VÉHICULE

Publication

EP 4247667 A1 20230927 (EN)

Application

EP 21816418 A 20211119

Priority

- FR 2011954 A 20201120
- EP 2021082376 W 20211119

Abstract (en)

[origin: WO2022106659A1] The present invention relates to an abnormality detection system (120) of a vehicle lighting device (100) to detect a short circuit in the lighting unit (110). The abnormality detection system (120) comprises: a voltage detector (125) configured to detect a voltage across a LED in each string of plurality of LED strings (145) of a lighting unit of the vehicle lighting device; a comparison unit (135) configured to compare the detected voltage with a predetermined voltage value and generates a status signal; and a switching unit (130) configured to switch the operation of the plurality of LED strings (145) from a first mode to a second mode based on the information in the status signal.

IPC 8 full level

B60Q 11/00 (2006.01); **H05B 45/50** (2022.01); **H05B 47/21** (2020.01)

CPC (source: EP)

B60Q 11/005 (2013.01); **H05B 45/50** (2020.01); **H05B 47/21** (2020.01)

Citation (search report)

See references of WO 2022106659A1

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)

FR 3116485 A1 20220527; EP 4247667 A1 20230927; WO 2022106659 A1 20220527

DOCDB simple family (application)

FR 2011954 A 20201120; EP 2021082376 W 20211119; EP 21816418 A 20211119