

Title (en)
OPTOELECTRONIC CIRCUIT WITH LIGHT-EMITTING DIODES

Title (de)
OPTOELEKTRONISCHE SCHALTUNG MIT LEUCHTDIODEN

Title (fr)
CIRCUIT OPTOÉLECTRONIQUE À DIODES ÉLECTROLUMINESCENTES

Publication
EP 3332608 B1 20190213 (FR)

Application
EP 16750976 A 20160719

Priority

- FR 1557480 A 20150803
- FR 2016051843 W 20160719

Abstract (en)
[origin: WO2017021610A1] The invention relates to an optoelectronic circuit (20) for receiving a variable voltage (VALIM) containing alternating increasing and decreasing phases. The optoelectronic circuit comprises: assemblies (Di) of light-emitting diodes mounted in series; a current source (30) connected to each assembly (Di) by a switch (SWi); for each switch, a first comparison module (36i) for comparing the current (Ii) passing through the switch with a current threshold; a second comparison module (38) for comparing a voltage representing the voltage (Vç s) at the terminals of the current source with a voltage threshold; and a control module (34) connected to the first and second comparison modules and designed to control the opening and closing of the switches, during each increasing phase and each decreasing phase, according to signals supplied by the first and second comparison modules.

IPC 8 full level
H03M 1/74 (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP US)
H05B 45/44 (2020.01 - EP US); **H05B 45/397** (2020.01 - 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

DOCDB simple family (publication)
WO 2017021610 A1 20170209; CN 108029172 A 20180511; CN 108029172 B 20191001; EP 3332608 A1 20180613; EP 3332608 B1 20190213; FR 3039943 A1 20170210; FR 3039943 B1 20170901; KR 20180033241 A 20180402; US 10264633 B2 20190416; US 2018227992 A1 20180809

DOCDB simple family (application)
FR 2016051843 W 20160719; CN 201680055813 A 20160719; EP 16750976 A 20160719; FR 1557480 A 20150803; KR 20187004956 A 20160719; US 201615750172 A 20160719