

Title (en)
MULTI-PATH LED DRIVER CIRCUIT

Title (de)
MEHRWEGE-LED-TREIBERSCHALTUNG

Title (fr)
CIRCUIT DE COMMANDE DE DEL À TRAJETS MULTIPLES

Publication
EP 3813489 A1 20210428 (EN)

Application
EP 19205522 A 20191026

Priority
EP 19205522 A 20191026

Abstract (en)
An LED driver circuit includes a rectifier circuit (2), a filter circuit (3), a constant voltage (CV)(4) circuit, a first constant current (CC)(51) circuit and a second CC circuit (52). The rectifier circuit (2) connects an AC power source for converting an AC power into a DC power. The filter circuit (3) connects the rectifier circuit (2) for filtering an AC component. The CV circuit (4) connects the filter circuit (3) for generating a fixed voltage and outputting the fixed voltage via a voltage output end (41). The voltage output end (41) is used for connecting a first electrode of each of two LEDs. The first CC circuit (51) connects both the CV circuit (4) and a second electrode of one of the two LEDs. The second CC circuit (52) connects both the CV circuit (4) and a second electrode of another one of the two LEDs. The first and second CC circuits (51, 52) make currents flowing through the two LEDs independently controllable.

IPC 8 full level
H05B 45/10 (2020.01); **H05B 45/46** (2020.01)

CPC (source: EP)
H05B 45/10 (2020.01); **H05B 45/46** (2020.01)

Citation (search report)
• [XYI] US 2012200229 A1 20120809 - KUNST DAVID [US], et al
• [XI] WO 2013180500 A1 20131205 - SEOUL SEMICONDUCTOR CO LTD [KR]
• [YA] WO 0139553 A1 20010531 - GELCORE COMPANY [CA], et al

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

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