

Title (en)

POWER-CONTROLLED OPERATING CIRCUIT FOR A LIGHTING MEANS AND METHOD FOR OPERATING THE SAME

Title (de)

LEISTUNGSGEREDELTE BETRIEBSSCHALTUNG FÜR EIN LEUCHTMITTEL SOWIE VERFAHREN ZUM BETREIBEN DERSELBEN

Title (fr)

CIRCUIT DE BALLAST RÉGULÉ EN PUISSANCE POUR UN LUMINAIRE, ET PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 2425684 B1 20160629 (DE)

Application

EP 10716534 A 20100427

Priority

- EP 2010055610 W 20100427
- DE 102009019229 A 20090428

Abstract (en)

[origin: WO2010125053A1] The invention relates to a power-controlled operating circuit (1, 21) for a lighting means (LP, LD) and a method for operating the same. For the power control, the actual power value (Pactual) must be measured and compared with a specified target power value (Ptarget) in order to obtain a control difference (Pdiff), which is used as a control value (2). However, the measured actual power value (Pactual) is affected by the circuit-specific power loss (Pl), which differs as a result of production tolerances in the individual operating circuits. In order to nevertheless ensure that the light power output by the lighting means (LP, LD) always corresponds to the target power value (Ptarget), the actual power loss (Pl) of the operating circuit is determined and stored in an advance routine phase in which the lighting means does not yet draw any effective power for light emission. In the subsequent operating phase, if the lighting means has drawn effective energy for light emission, at least one of the control parameters (actual power value, target power value, control difference) is corrected in such a way that the power loss (Pl) does not affect the control process.

IPC 8 full level

H05B 41/36 (2006.01); **H05B 41/282** (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP)

H05B 41/2828 (2013.01); **H05B 41/36** (2013.01); **H05B 45/14** (2020.01)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

DE 102009019229 A1 20101104; CN 102428761 A 20120425; DE 112010001791 A5 20121108; EP 2425684 A1 20120307; EP 2425684 B1 20160629; WO 2010125053 A1 20101104

DOCDB simple family (application)

DE 102009019229 A 20090428; CN 201080019061 A 20100427; DE 112010001791 T 20100427; EP 10716534 A 20100427; EP 2010055610 W 20100427