

Title (en)
STABILIZATION SYSTEM AND CURRENT CONTROLLER THEREOF

Title (de)
STABILISIERUNGSSYSTEM UND STROMSTEUERGERÄT DAFÜR

Title (fr)
SYSTÈME DE STABILISATION ET SON CONTRÔLEUR DE COURANT

Publication
EP 3772871 A1 20210210 (EN)

Application
EP 20189840 A 20200806

Priority
CN 201910736526 A 20190809

Abstract (en)
A stabilization system includes an AC power supply, a TRIAC dimmer circuit, a load conversion circuit and a current controller. The TRIAC dimmer circuit dynamically generates a drive power. The load conversion circuit filters noises off the drive power and drives an external LED unit using the filtered drive power. The current controller detects an activating phase of the AC power supply's AC voltage from the drive power. The current controller keeps a sum of a buffer current of the current controller and a load current of the load conversion circuit to approximate a predetermined critical current value and to exceed an operating current of the TRIAC dimmer circuit in response to the detected activating phase of the AC voltage.

IPC 8 full level
H05B 44/00 (2022.01); **H05B 45/10** (2020.01); **H05B 45/3575** (2020.01)

CPC (source: EP)
H05B 45/10 (2020.01); **H05B 45/3575** (2020.01)

Citation (search report)

- [X] EP 2373124 A1 20111005 - ROHM CO LTD [JP]
- [A] US 2015312978 A1 20151029 - VAUGHAN PETER [US], et al
- [A] US 2018295690 A1 20181011 - CHEN HUIQIANG [CN], 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

DOCDB simple family (publication)
EP 3772871 A1 20210210; **EP 3772871 B1 20230614**; **EP 3772871 C0 20230614**; CN 110536510 A 20191203; CN 110536510 B 20220405

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