

Title (en)

CONSTANT-CURRENT DRIVE CIRCUIT, CONSTANT-CURRENT DRIVE DEVICE AND LAMP

Title (de)

KONSTANTSTROMTREIBERSCHALTUNG, KONSTANTSTROMTREIBERVORRICHTUNG UND LAMPE

Title (fr)

CIRCUIT D'ENTRAÎNEMENT À COURANT CONSTANT, DISPOSITIF D'ENTRAÎNEMENT À COURANT CONSTANT ET LAMPE

Publication

EP 4037439 A1 20220803 (EN)

Application

EP 21215168 A 20211216

Priority

CN 202110120693 A 20210128

Abstract (en)

The present application relates to the field of driving technology, and provides a constant-current drive circuit, a constant-current drive device, and a lamp. The AC power is connected via a rectifier module (10) and rectified by the rectifier module (10) to generate a DC voltage signal. An electrolytic capacitor (C3) is provided at an output end of the rectifier module (10) to improve an efficiency of circuit and to eliminate a stroboscopic phenomenon in the DC voltage signal. The driver module (20) is configured to generate a constant-current driving signal according to the DC voltage signal in the discontinuous conduction mode, and adjust an output duty cycle according to the constant-current driving signal to maintain a constant current of the constant-current driving signal. The electromagnetic suppression module (30) is configured to eliminate a clutter interference signal in the DC voltage signal to improve an electromagnetic performance of the circuit. Such that problems of higher driving cost and larger size of driving space caused by an additional de-stroboscopic circuit in the circuit can be solved.

IPC 8 full level

H05B 45/36 (2020.01); **H05B 45/345** (2020.01); **H05B 45/59** (2022.01)

CPC (source: CN EP)

H05B 45/345 (2020.01 - CN EP); **H05B 45/36** (2020.01 - CN EP); **H05B 45/3725** (2020.01 - CN); **H05B 45/59** (2022.01 - EP)

Citation (search report)

- [XAI] US 2018224074 A1 20180809 - XIONG AIMING [CN], et al
- [XAI] CN 203435204 U 20140212 - NANJING HANDSON CO LTD
- [XA] CN 102594155 A 20120718 - JIANGSU SENCHIP MICROELECTRONICS CO LTD

Cited by

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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 4037439 A1 20220803; CN 114828332 A 20220729

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