

Title (en)

A ballast circuit for a lighting circuit, and a lighting circuit including a ballast circuit

Title (de)

Ballastschaltung für einen Lichtstromkreis und Lichtstromkreis mit der Ballastschaltung

Title (fr)

Circuit de ballast pour circuit d'éclairage, et circuit d'éclairage incluant un circuit de ballast

Publication

EP 2249620 A1 20101110 (EN)

Application

EP 09100267 A 20090505

Priority

EP 09100267 A 20090505

Abstract (en)

This invention relates to ballast circuits for lighting circuits, such as LED circuits, which can be directly driven from a mains voltage or other, off-grid, AC voltage sources. The ballast circuit comprises a SMPS without any electrolytic capacitor. The SMPS can operate to provide an unregulated voltage. By not including an electrolytic capacitor, the cost, bulk, and life-time limitations associated with such a capacitor are avoided.

IPC 8 full level

H05B 44/00 (2022.01)

CPC (source: EP US)

H05B 45/3725 (2020.01 - EP US); **H05B 45/385** (2020.01 - EP US)

Citation (search report)

- [XY] US 2007182338 A1 20070809 - SHTEYNBERG ANATOLY [US], et al
- [XY] WO 2008112820 A2 20080918 - CIRRUS LOGIC INC [US]
- [X] US 2004079953 A1 20040429 - MEDNIK ALEXANDER [US], et al
- [Y] WO 2008068705 A1 20080612 - NXP BV [NL], et al
- [Y] WO 2009013676 A2 20090129 - NXP BV [NL], et al
- [A] "HV9931 Unity Power Factor LED Lamp Driver, Initial realease", SUPERTEXT INC. HV 9931 - INITIAL RELEASE, SUPERTEXT INC, SUNNYVALE, CA, USA, no. HV9931, 1 January 2005 (2005-01-01), pages 1 - 8, XP002486609
- [A] AN-H52 APPLICATION NOTE: "HV9931 Unity Power Factor LED Lamp Driver", 7 March 2007, SUPERTEXT INC.- AN-H52 - APPLICATION NOTE, SUPERTEX INC, SUNNYVALE, CA, USA, PAGE(S) 1 - 20, XP002486610

Cited by

EP2273849A3; CN108449831A; EP2458722A1; CN102480828A; CN103270812A; US8581508B2

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2249620 A1 20101110

DOCDB simple family (application)

EP 09100267 A 20090505