

Title (en)

Electronic ballast provided with a thermal safety circuit

Title (de)

Elektronisches Vorschaltgerät mit thermischer Schutzschaltung

Title (fr)

Ballast électronique avec circuit de protection thermique

Publication

**EP 0848580 B1 20000719 (EN)**

Application

**EP 97660142 A 19971211**

Priority

FI 965024 A 19961216

Abstract (en)

[origin: EP0848580A1] The invention relates to an electronic ballast provided with a thermal safety circuit, comprising a semi-bridge oscillator circuit (1, 2) and a transformer (3), which controls operation of the oscillator circuit and through which a high-frequency lamp current passes. The ballast is provided with a safety circuit (10), which prevents operation of the ballast as temperature and/or a voltage across the lamp exceeds a given value. The material and dimensioning for the core of the transformer (3) are selected in such a manner that the rise of the core temperature above a given temperature causes, as a result of saturation of the core, an increase in the operating frequency of the oscillator circuit. The safety circuit (10) includes elements for measuring a voltage existing across the lamp and elements for bringing the oscillator to an inactive or stand-by state as the measured voltage exceeds a given value. <IMAGE>

IPC 1-7

**H05B 41/00**

IPC 8 full level

**H05B 41/285** (2006.01)

CPC (source: EP)

**H05B 41/2855** (2013.01); **H05B 41/2856** (2013.01)

Cited by

DE102011103638A1; CN101796889A; EP1054581A3; US7911148B2; US7817453B2; WO2006128435A3; WO2009029334A3; EP2719259B1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 0848580 A1 19980617**; **EP 0848580 B1 20000719**; DE 69702588 D1 20000824; DE 69702588 T2 20010419; FI 101186 B1 19980430; FI 101186 B 19980430; FI 965024 A0 19961216

DOCDB simple family (application)

**EP 97660142 A 19971211**; DE 69702588 T 19971211; FI 965024 A 19961216