

Title (en)

Fluorescent tube converter and protection circuit

Title (de)

Leuchtstoffröhrenwandler und Schutzschaltung

Title (fr)

Convertisseur de tube fluorescent et circuit de protection

Publication

EP 2453532 A2 20120516 (EN)

Application

EP 11187367 A 20111101

Priority

GB 201019265 A 20101115

Abstract (en)

To permit direct adaptation of a pre-existing light fittings supporting T8 or T12 technologies into a T5 compliant arrangement, a current limiting and control circuit is inserted across electrical terminals (502, 515) in a T5 end-cap adaptor (10). Current limiting devices (PTC1, PTC2), such as a positive temperature coefficient (PTC) thermistor, restrict current flow under conditions where current passed through the electrical terminals exceeds a maximum input current of an electronic ballast (510), such as a T5 fluorescent tube (406). To further accommodate physical sizing of a molded T5 end-cap adaptor (10) and to produce an increase in creepage distance, electrical contact pins (22) extending rearwardly from end-cap adaptor (10) are separated from a peripheral edge of the molded end-cap by an isolating channel (26) formed generally about outermost edges of each electrical contact pin (22).

IPC 8 full level

H01R 33/94 (2006.01); **E04C 3/17** (2006.01); **H05B 41/285** (2006.01)

CPC (source: EP)

H05B 41/295 (2013.01); **H05B 41/2988** (2013.01)

Citation (applicant)

GB 2454400 A 20090506 - ADVANCED MICRO DEVICES INC [US]

Cited by

CN104902628A; CN108650727A; WO2019179007A1

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 2453532 A2 20120516; **EP 2453532 A3 20120905**; GB 201019265 D0 20101229

DOCDB simple family (application)

EP 11187367 A 20111101; GB 201019265 A 20101115