

Title (en)

METHOD AND DEVICE FOR OPERATING A FLUORESCENT TUBE IN AN ENERGY SAVING MANNER

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ENERGIESPARENDEN BETREIBEN EINER LEUCHTSTOFFRÖHRE

Title (fr)

PROCEDE ET DISPOSITIF DESTINES AU FONCTIONNEMENT ECONOMIQUE D'UN TUBE FLUORESCENT

Publication

EP 1425943 B1 20091202 (DE)

Application

EP 02767133 A 20020903

Priority

- DE 0203244 W 20020903
- DE 20114623 U 20010904

Abstract (en)

[origin: WO03024162A1] The invention relates to a method and a device for operating a fluorescent tube, especially a T5-fluorescent tube in an energy saving manner. In a first operational mode, a spiral-wound filament disposed on an end of the fluorescent tube is impinged upon by a heating current and a second spiral-wound filament disposed on an end opposite the end of the fluorescent tube is impinged upon by a second heating current. The second spiral-wound filament is connected to an energy saving circuit arrangement. In a second mode of operation, impingement of the spiral-wound filament and the second spiral wound filament with the heating current or the second heating current is interrupted. The inventive device is provided with monitoring means which are contained in the electronic circuit in order to monitor an operating parameter of the second spiral-wound filament in the first and second mode of operation. Said electronic circuit enables control of the time interval of impingement of the second spiral-wound filament by the second heating current according to the time interval of impingement of the first spiral-wound filament with the first heating current.

IPC 8 full level

H05B 41/24 (2006.01); **H05B 41/295** (2006.01); **H05B 1/00** (2006.01); **F21V 19/00** (2006.01)

CPC (source: EP US)

H05B 41/295 (2013.01 - EP US); **F21V 19/0085** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03024162 A1 20030320; AT E451004 T1 20091215; CA 2459226 A1 20030320; DE 10294173 D2 20050602; DE 20114623 U1 20040212; DE 20220659 U1 20031218; DE 50214049 D1 20100114; EP 1425943 A1 20040609; EP 1425943 B1 20091202; ES 2337885 T3 20100430; HU P0401299 A2 20050329; JP 2005502184 A 20050120; PL 374155 A1 20051003; RU 2004110048 A 20050227; US 2005030750 A1 20050210

DOCDB simple family (application)

DE 0203244 W 20020903; AT 02767133 T 20020903; CA 2459226 A 20020903; DE 10294173 T 20020903; DE 20114623 U 20010904; DE 20220659 U 20020903; DE 50214049 T 20020903; EP 02767133 A 20020903; ES 02767133 T 20020903; HU P0401299 A 20020903; JP 2003528071 A 20020903; PL 37415502 A 20020903; RU 2004110048 A 20020903; US 48793304 A 20040921