

Title (en)

Circuit arrangement for operating several fluorescent lamps with one ballast

Title (de)

Schaltungsanordnung zum Betreiben mehrerer Leuchtstofflampen mit einem Vorschaltgerät

Title (fr)

Circuit pour le fonctionnement de plusieurs lampes fluorescentes avec un ballast

Publication

EP 0558772 B1 19960918 (DE)

Application

EP 92103567 A 19920302

Priority

EP 92103567 A 19920302

Abstract (en)

[origin: EP0558772A1] If a single electronic ballast (1, 2, 3) is used for the joint operation of at least two fluorescent lamps (LL1, LL2), then, even in the event of one fluorescent lamp being deactivated in the case of a defect, the operation of the other fluorescent lamps is intended to be maintained without defect. For this purpose, a switching device (S1, 5) is arranged between the individual fluorescent lamps and lamp inductors (DR1, DR2) allocated individually to them. This switching device (S1, 5) is triggered by a defect condition, in the case of which the starting voltage is applied to one of the fluorescent lamps for longer than a predetermined time interval (t1). On switching over, the lamp circuits are jointly connected to only one of the lamp inductors. A single series-resonant circuit is formed from the two series-resonant circuits of the two lamp circuits, in which single series-resonant circuit it is irrelevant which of the fluorescent lamps is deactivated, and no high starting voltage occurs as long as only one of the fluorescent lamps is illuminated. <IMAGE>

IPC 1-7

H05B 41/29; **H05B 37/03**

IPC 8 full level

H05B 37/04 (2006.01); **H05B 41/285** (2006.01)

CPC (source: EP)

H05B 41/2855 (2013.01); **H05B 47/29** (2020.01)

Cited by

EP0746185A1; EP1359791A1; AU2003203576B2; DE19816815C1; EP0951204A3; US5705894A; CN1076945C; US6753660B2; US6476567B1; WO0059271A1; WO9603017A1

Designated contracting state (EPC)

AT DE FR GB IT NL

DOCDB simple family (publication)

EP 0558772 A1 19930908; **EP 0558772 B1 19960918**; AT E143208 T1 19961015; DE 59207186 D1 19961024

DOCDB simple family (application)

EP 92103567 A 19920302; AT 92103567 T 19920302; DE 59207186 T 19920302