

Title (en)
LIGHTING CIRCUIT FOR A LOW-PRESSURE DISCHARGE LAMP

Publication
EP 0054301 B1 19860219 (DE)

Application
EP 81110450 A 19811215

Priority
DE 3047289 A 19801216

Abstract (en)
[origin: US4460848A] Connected in parallel to the lamp through a fuse (10) is a triac (2) the control electrode of which is connected through a diac (3) to the tap (4) of a voltage divider likewise in parallel with the lamp. The first branch of the voltage divider contains, in addition to a fixed resistor (5), at least one variable series impedance (6) which may be either a capacitor or a voltage-dependent resistor. The second branch of the voltage divider is provided by a capacitor (7). A temperature dependent NTC resistance (8) bridges a portion of the first branch and all of the second branch of the voltage divider. For use with ballasts containing a choke, it is desirable to interpose a diode bridged by a NTC resistor in the first branch of the voltage divider adjacent to the tap. An anti-interference capacitor (9) is connected across the triac and can be replaced by a capacitive voltage divider for use with lamps of higher ignition voltage, in which case one capacitive branch of the capacitive voltage divider is bridged by a self-switching four-layer diode, to which it is possible to add a small series inductor. The starter circuit is suitable for a wide range of operating conditions of the lamp.

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H05B 41/04

IPC 8 full level
H05B 41/18 (2006.01); **H05B 41/04** (2006.01)

CPC (source: EP US)
H05B 41/046 (2013.01 - EP US); **Y10S 315/05** (2013.01 - EP US)

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Cited by
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