

Title (en)

Electronic circuit for energy saving and operation of sodium and mercury lamps

Title (de)

Elektronische Schaltung für Energieeinsparung und Betrieb der Leuchtstofflampen

Title (fr)

Circuit électronique pour l'économie d'énergie et fonctionnement des lampes à décharge

Publication

EP 1686840 A1 20060802 (EN)

Application

EP 05386018 A 20050706

Priority

GR 2005100036 A 20050127

Abstract (en)

Electronic circuit of initiation and operation of sodium and mercury lamps with energy saving that consists of an electronic filter (2) that includes combination of capacitors C1, C2 and inductors L1, L2, a "bridge" IC1 (3) of transformation of current from alternate to continuous, a capacitor C3 (4) for the stabilisation of oscillation that produces the "bridge" and a resistance R1 (5) via which the required drop of voltage becomes in order that with the suitable filters, the capacitors C4, C5 (6) becomes constant from stabilizer IC2 (7). The constant current that has resulted from the stabilizer (7) passes through the oscillator (8) that is a high frequency generator and contains resistance R4 for the regulation of the voltage that enters in the transistor (9) and the capacitor C6 for the regulation of transistor operation frequency (9). The transistor input voltage is regulated by resistance R5 (15) while the corresponding output voltage is regulated by resistance R6 (16). The transformed current at normal operation of the lamp is led to the electronic transformer T1, which has three threads, one superior P1 and two secondary S1 and S2. Threads P1 and S1 constitute parts of the superior (10) and the secondary (11) circuit respectively. The superior circuit (10) raise inductively the secondary (11) under normal lamp operation (12). The thread S2 is part of the control circuit (14) that controls the operation of the main circuit (10).

IPC 8 full level

H05B 41/285 (2006.01)

CPC (source: EP)

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Citation (search report)

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- [Y] US 3978390 A 19760831 - REMERY MICHEL
- [Y] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 09 4 September 2002 (2002-09-04)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05 14 September 2000 (2000-09-14)

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