

Title (en)

Circuit for operating a fluorescent lamp with a current measuring circuit

Title (de)

Schaltungsanordnung zum Betrieb einer Leuchtstofflampe und zur Messung des Lampenstroms

Title (fr)

Circuit pour alimenter une lampe fluorescente avec mesure du courant passant par la lampe

Publication

EP 0589081 B1 19970115 (DE)

Application

EP 92116334 A 19920924

Priority

EP 92116334 A 19920924

Abstract (en)

[origin: EP0589081A1] A series-resonant circuit having a first winding of a feedback transformer (Tr1.1), having a resonance inductor (L1), having a coupling capacitor (C1), having a first lamp cathode (LK1), having a resonance capacitor (C2) and having a first winding of an isolating transformer (Tr4.1) is formed in the circuit arrangement for supplying a fluorescent lamp (LL) and is connected between the output of an invertor, which operates on a supply voltage (Ub), and one pole of the supply voltage (Ub). The second coupling of the isolating transformer (Tr4.2) is connected in parallel with the second lamp cathode (LK2). As a result of this circuitry of the second lamp cathode (LK2), the same currents Iheat flow through the two lamp cathodes (LK1, LK2) with the same number of windings of the windings of the isolating transformer (Tr4.1, Tr4.2), and in consequence the same heating of the two lamp cathodes (LK1, LK2) is achieved. The parallel circuit formed by the second lamp cathode (LK2) and the second winding of the isolating transformer (Tr4.2) is connected to one terminal of the supply voltage Ub, via a resistor (R1), at a potential. The lamp current IL flows through the resistor (R1). The voltage dropped across the resistor (R1) is thus proportional to the actual value of the lamp current Iact and can thus be supplied to the main circuit (HS), which is also provided for regulating the lamp current. <IMAGE>

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CPC (source: EP US)

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Cited by

DE19501695B4; EP0852453A1; EP0693864A3; EP1191824A3; US5656891A; EP0707438A3; EP0707438A2; WO2007039010A1; WO2008128573A1; WO2009089918A1

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