

Title (en)

DEVICE FOR SUPPLYING POWER TO A NON-LINEAR LOAD.

Title (de)

EINRICHTUNG ZUR VERSORGUNG EINER NICHTLINEAREN LAST.

Title (fr)

DISPOSITIF D'ALIMENTATION D'UNE CHARGE NON LINEAIRE.

Publication

EP 0597897 B1 19950215 (FR)

Application

EP 92915711 A 19920708

Priority

- FR 9110176 A 19910809
- FR 9200656 W 19920708

Abstract (en)

[origin: FR2680297A1] A power supply device connected to an a.c. network and including a rectifier (5), a high-voltage transformer (8) with a secondary winding (19) connected to the load (1), a high-frequency switching element (14) connected to a control circuit (16), and a measuring device (28) for measuring current intensity in the primary circuit of the transformer. Said measuring device (28) comprises a sensor (30) combined with a device (34) for recording a voltage which is proportional to the intensity flowing through the element (14), and averaged over a high-frequency oscillation period, devices (43, 38, 41) for processing values such as the output value of device (34), the rectified mains voltage value $|u_r|$, and a set power value P0, as well as an error amplifier (46), the output signal of which controls circuit (16). The resulting switching frequency control provides both a variation in mains current intensity which is proportional to the mains voltage supply, and power consumption which is equal to said set power value P0. The device is useful for supplying, power to a microwave oven magnetron.

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