

Title (en)

Magnetron high voltage supply with frequency recognition

Title (de)

Magnetron-Hochspannungsversorgung mit Frequenzerkennung

Title (fr)

Alimentation haute tension au magnétron dotée d'une reconnaissance de fréquence

Publication

EP 2190261 B1 20120111 (DE)

Application

EP 08291102 A 20081121

Priority

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Abstract (en)

[origin: EP2190261A1] The voltage supply unit (10) has a transformer (16) provided with a primary winding (18) and a secondary winding (20). A voltage multiplication- and rectification circuit (24) is provided with a diode (26) and capacitors (30, 32). The voltage multiplication- and rectification circuit rectifies secondary voltage induced in the secondary winding and multiplies the voltage. A frequency detection circuit (34) i.e. digital frequency counter, detects alternating current frequency of the transformer. A switch (28) adjusts capacitance of the capacitors depending on the detected frequency. An independent claim is also included for a method for producing high voltage for a magnetron to produce microwaves in a cooking appliance.

IPC 8 full level

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CPC (source: EP)

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DOCDB simple family (publication)

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