

Title (en)

MICROWAVE GENERATING DEVICE WITH OSCILLATING VIRTUAL CATHODE

Title (de)

MIKROWELLENGENERATOR MIT OSZILLIERENDER VIRTUELLER KATHODE

Title (fr)

DISPOSITIF GENERATEUR D'ONDES HYPERFREQUENCES A CATHODE VIRTUELLE OSCILLANTE

Publication

EP 1815492 A2 20070808 (FR)

Application

EP 05810745 A 20051003

Priority

- FR 2005050802 W 20051003
- FR 0452264 A 20041005

Abstract (en)

[origin: WO2006037918A2] The invention concerns a microwave generating device comprising a diode (4, 2) consisting of an anode (4) and a cathode (2) and adapted to create a virtual cathode (6) by accumulation of electrons in a circular waveguide (5) capable of propagating a microwave emitted by oscillation of the virtual cathode (6). The invention is characterized in that it comprises a first reflector (8) transparent to electrons and reflecting the microwave and located in the waveguide (5) such that the virtual cathode (6) is positioned between the anode (4) and the first reflector (8). The invention is applicable to power generation in the microwave domain.

IPC 8 full level

H01J 25/02 (2006.01)

CPC (source: EP)

H01J 23/02 (2013.01); **H01J 25/02** (2013.01); **H01J 25/74** (2013.01)

Citation (search report)

See references of WO 2006037918A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

FR 2876218 A1 20060407; FR 2876218 B1 20061124; AT E441936 T1 20090915; DE 602005016452 D1 20091015; EP 1815492 A2 20070808; EP 1815492 B1 20090902; WO 2006037918 A2 20060413; WO 2006037918 A3 20080626

DOCDB simple family (application)

FR 0452264 A 20041005; AT 05810745 T 20051003; DE 602005016452 T 20051003; EP 05810745 A 20051003; FR 2005050802 W 20051003