

Title (en)

MICROWAVE GENERATOR WITH OSCILLATING VIRTUAL CATHODE AND OPEN REFLECTORS

Title (de)

MIKROWELLENGENERATOR MIT OSZILLIERENDER VIRTUELLER KATHODE UND OFFENEN REFLEKTOREN

Title (fr)

GÉNÉRATEUR DE MICROONDES À CATHODE VIRTUELLE OSCILLANTE ET À RÉFLECTEURS OUVERTS

Publication

**EP 2936537 A1 20151028 (FR)**

Application

**EP 13820835 A 20131219**

Priority

- FR 1262385 A 20121220
- FR 2013053204 W 20131219

Abstract (en)

[origin: WO2014096728A1] The present invention relates to a device for generating microwaves with an oscillating virtual cathode, comprising a cathode (2), a thin anode (4) positioned at an inlet of a cylindrical waveguide (5), at least one first open reflector (9) and one last open reflector (9) located in the waveguide (5), which are transparent to electrons and capable of reflecting a microwave created by at least one virtual cathode generated in the waveguide (5), and a plurality of open reflectors (9) between the first and last open reflector (9) such that one reflector from the plurality has a radius  $RR_{(i+1)}$  less than or equal to a radius  $RR_i$  of a reflector from the immediately preceding plurality and the last open reflector (9) having a radius  $RR_N$  less than a radius  $RR_1$  of the first open reflector.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2014096728A1

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**FR 3000289 A1 20140627**; **FR 3000289 B1 20170811**; EP 2936537 A1 20151028; EP 2936537 B1 20180912; US 2015348736 A1 20151203; US 9496114 B2 20161115; WO 2014096728 A1 20140626

DOCDB simple family (application)

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