

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

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Application

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Priority

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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.

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