

Title (en)

DEVICE FOR PRODUCING HIGH FREQUENCY MICROWAVES

Title (de)

VORRICHTUNG ZUR ERZEUGUNG VON MIKROWELLEN HOHER FREQUENZ

Title (fr)

DISPOSITIF POUR PRODUIRE DES MICRO-ONDES A FREQUENCE ELEVEE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO02071435A1] The invention relates to a device (1) for producing high frequency microwaves comprising a cathode arrangement with heatable cathodes (15) for emitting electrons, two grid arrangements for controlling and focusing fluxes of electrons and an anode (3) for receiving the electrons flowing through the grid arrangements. The cathode arrangement and the first grid arrangement, in addition to a locking element or a throttle element (16), define an input cavity (12) forming a resonant cavity. The anode (3) and the second grid arrangement define an output cavity also forming a resonant cavity. Said cathode arrangement comprises a mounting for the cathode (15) such that a deformation of the cathode (15) is avoided by reducing the distance between the heatable cathode (15) and the grids(18).

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