

Title (en)

MICRO-WAVE TUBE WITH MECHANICAL FREQUENCY TUNING

Title (de)

MIKROWELLENRÖHRE MIT MECHANISCHER FREQUENZABSTIMMUNG

Title (fr)

TUBE A MICRO-ONDES A ACCORD MECANIQUE DE FREQUENCE

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Application

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Abstract (en)

[origin: US2006032446A1] This invention relates to a microwave tube (3) for generation of an electromagnetic wave with frequency F. The tube comprises mechanical means for varying the frequency F composed of a set of rings (A, B, C, D) defining a periodic structure inside the tube and mechanical means (4, 5, 2, G) for displacing rings with respect to each other while maintaining a periodicity for periodic structure during displacement of the rings. The invention is applicable to any type of microwave tube, such as a PWT, a BWO type tube, a klystron, a magnetron, a carcinotron, a maser, etc.

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