

Title (en)

TRAVELLING-WAVE TUBE WITH COUPLED CAVITIES AND WITH PERIODIC PERMANENT MAGNET FOCUSING, AND AMPLIFIER UNIT WITH SUCH A TUBE

Publication

EP 0037309 B1 19831228 (FR)

Application

EP 81400418 A 19810318

Priority

FR 8007294 A 19800401

Abstract (en)

[origin: US4399389A] In a travelling wave tube in which the delay line (1) is constituted by a sequence of double resonator cavities (15) alternating with the pole pieces (3) of the focusing system, the invention provides for the purpose of limiting the interception of electrons by the line an increase in the diameter of the magnetic material collars (30, 40) terminating said pieces, as well as the wall (16) of the cavities on the side of the tube axis. This increase takes place in stages, a collar (40) having the same diameter as the collar (30) which follows it in the beam propagation direction.

IPC 1-7

H01J 23/087; **H01J 23/24**

IPC 8 full level

H01J 23/087 (2006.01); **H01J 23/24** (2006.01)

CPC (source: EP US)

H01J 23/087 (2013.01 - EP US); **H01J 23/24** (2013.01 - EP US)

Citation (examination)

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Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

EP 0037309 A1 19811007; **EP 0037309 B1 19831228**; DE 3161746 D1 19840202; FR 2479558 A1 19811002; FR 2479558 B1 19830819; US 4399389 A 19830816

DOCDB simple family (application)

EP 81400418 A 19810318; DE 3161746 T 19810318; FR 8007294 A 19800401; US 24831781 A 19810327