

Title (en)

COUPLED CAVITIES DELAY LINE FOR A TRAVELLING-WAVE TUBE, AND TRAVELLING-WAVE TUBE COMPRISING SUCH A LINE

Publication

**EP 0048648 B1 19841010 (FR)**

Application

**EP 81401351 A 19810827**

Priority

FR 8020216 A 19800919

Abstract (en)

[origin: US4431944A] In the last section of a delay line having coupled cavities for a traveling-wave tube, the following parameters are progressively increased in the direction of propagation of the electron beam: the diameter of the opening provided for the passage of the electron beam, thus making it possible to ensure better transmission of the beam and consequently to ensure higher efficiency as well as lower heat build-up; the ratio  $(D2-D1)/2$  of the cavity nozzles; and the thickness of the walls which are common to two adjacent cavities.

IPC 1-7

**H01J 23/24**

IPC 8 full level

**H01J 23/24** (2006.01); **H01J 25/36** (2006.01)

CPC (source: EP US)

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

Cited by

CN1068492C; FR2528626A2; EP0125218A3; FR2547455A1; EP0691345A2

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

**EP 0048648 A1 19820331**; **EP 0048648 B1 19841010**; DE 3166622 D1 19841115; FR 2490872 A1 19820326; FR 2490872 B1 19830722; JP H0378736 B2 19911216; JP S5790848 A 19820605; US 4431944 A 19840214

DOCDB simple family (application)

**EP 81401351 A 19810827**; DE 3166622 T 19810827; FR 8020216 A 19800919; JP 14770181 A 19810918; US 30256981 A 19810915