

Title (en)

MULTIBAND TRAVELLING WAVE TUBE OF REDUCED LENGTH CAPABLE OF HIGH POWER FUNCTIONING

Title (de)

HOCHLEISTUNGSFÄHIGES MEHRBAND-WANDELFELDROHR MIT REDUZIERTER LÄNGE

Title (fr)

TUBE A ONDES PROGRESSIVES MULTIBANDE DE LONGUEUR REDUITE CAPABLE DE FONCTIONNER A PUISSANCE ELEVEE

Publication

EP 1145268 A2 20011017 (FR)

Application

EP 99959496 A 19991217

Priority

- FR 9903190 W 19991217
- FR 9816358 A 19981223

Abstract (en)

[origin: FR2787918A1] The invention concerns a travelling wave tube designed to operate as amplifier in several frequency bands (B1, Bi, Bn), comprising a microwave frequency line (8) carrying electrons and wherein a signal is amplified. The microwave frequency line successively comprises an input section (h) separated by a series of disjointed output sections (h1, hi, hn), each output section operating in one of the tube operating frequency bands. The input section (h), connected at one end (ee) to input means (E) for the signal to be amplified, operates in a frequency band (B) including the tube operating frequency bands (B1, Bi, Bn) and is designed to preamplify the signal to be amplified. The series of output sections (h1, hi, hn) receives the preamplified signal. Each of the output sections is designed to amplify it if the signal is at a frequency included in its operating frequency band, and to allow it to pass almost without intervening, if it is at a frequency outside its operating frequency band. Each of the output sections (h1, hi, hn) is connected at one output end (es) to output means (h1, hi, hn) for the preamplified signal which it has amplified. The invention is applicable to travelling wave tubes with reduced length capable high power functioning.

IPC 1-7

H01J 25/34

IPC 8 full level

H01J 23/26 (2006.01); **H01J 25/34** (2006.01)

CPC (source: EP US)

H01J 25/34 (2013.01 - EP US)

Citation (search report)

See references of WO 0039832A2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

FR 2787918 A1 20000630; FR 2787918 B1 20010316; DE 69925310 D1 20050616; EP 1145268 A2 20011017; EP 1145268 B1 20050511; JP 2002533901 A 20021008; US 6483243 B1 20021119; WO 0039832 A2 20000706; WO 0039832 A3 20001026

DOCDB simple family (application)

FR 9816358 A 19981223; DE 69925310 T 19991217; EP 99959496 A 19991217; FR 9903190 W 19991217; JP 2000591646 A 19991217; US 86912501 A 20010625