

Title (en)

Travelling-wave tube with a coupling arrangement between its slow-wave circuit and an external microwave circuit.

Title (de)

Wanderfeldröhre mit einer Kopplungsvorrichtung zwischen ihrer Verzögerungsleitung und einer aussen gelegenen Mikrowellenschaltung.

Title (fr)

Tube à ondes progressives muni d'un dispositif de couplage entre sa ligne à retard et un circuit hyperfréquence externe.

Publication

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Application

EP 91401494 A 19910607

Priority

FR 9007639 A 19900619

Abstract (en)

The present invention relates to a travelling-wave tube including a delay line (1) held in a cylindrical conductive sheath (3) by conductive supports (20, 21) and an external microwave circuit (10) coupled to the delay line (1) by capacitive effect. The microwave circuit (10) includes an internal conductive core (12) arranged close to one end of the delay line (1). A dielectric layer (22) is interposed between the delay line (1) and the supports (20, 21). The end of the delay line (1) is connected to a portion of one of the supports (21). This portion of support (21) is arranged facing the internal conductive core (12). Application to wide band travelling-wave power tubes. <IMAGE>

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H01J 23/40

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [AD] EP 0364335 A1 19900418 - THOMSON CSF [FR]
- [APD] EP 0401065 A1 19901205 - THOMSON TUBES ELECTRONIQUES [FR]
- [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 25 (E-225)(1462) 2 Février 1984 & JP-A-58 188 034 (NIPPON DENKI K.K.) 2 Novembre 1983

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