

Title (en)

METHOD OF MANUFACTURING A TRAVELLING-WAVE TUBE WITH A DELAY LINE SUPPORTED BY DIELECTRIC RODS

Publication

EP 0110135 B1 19880127 (DE)

Application

EP 83110711 A 19831026

Priority

DE 3240195 A 19821029

Abstract (en)

[origin: EP0110135A1] 1. A method of producing a travelling wave tube comprising a delay line with a sturdy vacuum-tight metal sleeve, with a helical or ring-flange line, and a number of dielectric support rods which extend radially in relation to the delay line, fix the delay line along the central axis of the vacuum-tight sleeve and are soldered thereto, the vacuum-tight sleeve (3) serving to accommodate the support rods (2) in throughgoing bores (4), characterised in that the support rods (2) have their inner ends pushed through the bores (4) towards the centrally-supported line (1) until they bear against the line, that a tension wire (5) and a soldering wire are wound over the outer ends of the support rods (2) and the vacuum-tight sleeve (3) so that the tension wire exerts a radial pressure on the support rods, and that then the entire structure is heated in a soldering furnace, whereby the support rods (2) are soldered to the vacuum-tight sleeve (3).

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