

Title (en)

MULTIBEAM ELECTRONIC TUBE WITH MAGNETIC FIELD FOR CORRECTING BEAM TRAJECTORY

Title (de)

MEHRSTRAHLELEKTRONENRÖHRE MIT MAGNETISCHEM STRAHLENBAHNKORREKTURFELD

Title (fr)

TUBE ELECTRONIQUE MULTIFAISCEAU AVEC CHAMP MAGNETIQUE DE CORRECTION DE TRAJECTOIRE DES FAISCEAUX

Publication

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Application

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Abstract (en)

[origin: FR2780809A1] The invention concerns a multibeam electronic tube with several substantially parallel electron beams (1-7), passing through a body (10). Some (2-7) of the beams (1-7) at least define an interbeam volume (22), each beam (2-7) defining the interbeam volume (22) is subjected to a disturbing azimuthal magnetic field (B theta ) induced by all the others. The tube comprises means (M) allowing, in at least one conducting element (23) located in the interbeam volume (22), a counter current (I') to circulate in a direction opposite to that of the current (I) of the beams (1-7), said counter current (I') generating at the beams (2-7) defining the interbeam volume (22), a corrective magnetic field for countering the disturbing magnetic field (B theta ). The invention is applicable to travelling-wave tubes or multibeam klystrons.

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