

Title (en)

Waveguide with non-inclined slots activated by metallic inserts

Title (de)

Wellenleiter mit geraden strahlenden Schlitzen, angeregt durch metallische Einsätze

Title (fr)

Guide à fentes rayonnantes non inclinées excitées par des volets métalliques

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Application

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Priority

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Abstract (en)

[origin: EP0550320A1] The invention relates to a guide with non-inclined radiating slots activated by metallic inserts. In a waveguide (1) including slots (2, 3) perpendicular to the axis of the guide and cut out from a small side of the guide, pairs of metallic inserts (21, 22; 31, 32) which are symmetrical with respect to the central axis (XX') of the slot are arranged on either side of each slot. These inserts modify the electric field around the associated slot and enable it to be activated, the value of the coupling being adjusted by setting the size of the inserts and their position with respect to the corresponding radiating slot. The invention applies to slotted guides, especially for array antennas. <IMAGE>

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