

Title (en)

FEED STRUCTURE FOR ELECTROMAGNETIC WAVEGUIDES

Title (de)

EINSPEISESTRUKTUR FÜR ELEKTROMAGNETISCHE HOHLLEITER

Title (fr)

STRUCTURE D'ALIMENTATION POUR GUIDES D'ONDES ELECTROMAGNETIQUES

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Application

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Abstract (en)

[origin: WO0118901A1] The present invention relates to feed structures for electromagnetic waveguides, cavities, antennas and other structures. A "feed structure" is an arrangement for electrical conductors used to transfer RF energy between any transmission lines and a waveguide. There are problems associated with designing and manufacturing conventional feeds. The present invention overcomes these problems by directly coupling an integrated circuit incorporating an RF circuit element to a waveguide, cavity, antenna or other structure. Coupling is achieved by an aperture formed in a ground plane of the integrated circuit and connected to a transmission line linked to the RF circuit element.

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