

Title (en)  
E-PLANE CORNER FOR A RECTANGULAR WAVEGUIDE

Publication  
**EP 0014832 B1 19851227 (DE)**

Application  
**EP 80100137 A 19800111**

Priority  
DE 2903665 A 19790131

Abstract (en)  
[origin: US4272744A] A rectangular waveguide elbow (E-elbow) bent across the broad side of the waveguide with an outer corner symmetrically flattened by conductive flattening or smoothing plane which provides for elimination of undesirable reflections by providing a cross cylindrical bar at the median between the inner corner and the center of the flattening or smoothing plane and wherein the cylindrical bar has an enlarged portion at its center which extends a portion length of the bar. A second embodiment provides a bar which does not have an enlarged portion but wherein the diameter of the bar ratio to the length of the shorter side of the waveguide is at least 0.258.

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**H01P 1/02**

IPC 8 full level  
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