

Title (en)  
DIRECTIONAL MICROWAVE ANTENNA HAVING A SECTOR-SHAPED LOBE

Publication  
**EP 0034809 B1 19831228 (DE)**

Application  
**EP 81101185 A 19810219**

Priority  
DE 3007128 A 19800226

Abstract (en)  
[origin: EP0034809A1] 1. A micro-wave directional antenna, for the production of a sector-shaped radiation lobe, consisting of a reflector having an oval aperture and a radiator made of a non-rotation-symmetrical waveguide (9) on whose inner wall is fixed a dielectric insert (10 à 13) projecting over an opening in the waveguide, which radiator thus emits radiation mainly emanating from a ring zone running around the longitudinal axis of the radiator so as to be non-rotation-symmetrical, characterized in that the waveguide (9) possesses a rectangular cross-section, and that the dielectric insert comprises dielectric plates (10 to 13) fixed on each of the four inner walls of the waveguide.

IPC 1-7  
**H01Q 19/13**; **H01Q 13/06**; **H01Q 1/28**

IPC 8 full level  
**H01Q 1/28** (2006.01); **H01Q 13/06** (2006.01); **H01Q 19/08** (2006.01); **H01Q 19/13** (2006.01)

CPC (source: EP)  
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