

Title (en)  
BROADBAND MICROWAVE RADIATOR

Publication  
**EP 0122391 B1 19880601 (DE)**

Application  
**EP 84101496 A 19840214**

Priority  
DE 3305494 A 19830217

Abstract (en)  
[origin: EP0122391A1] 1. A wide-band microwave radiator for two polarizations, for illuminating a rotation-symmetrical parabolic reflector (12), comprising a wave-guide (1) of square or round cross-section whose first base surface faces away from the parabolic reflector (12) and is terminated by a metal plate (2) connected to two supply lines, preferably in the form of coaxial lines (3, 5), mutually offset in the direction of the waveguide axis and together forming an angle of 90 degrees in the peripheral direction, characterized in that the inner wall of the waveguide, following the opening which forms the aperture, has arranged thereon a first group of four cylinders (8, 9, 10, 11) which are mutually offset by 90 degrees in the peripheral direction, and are aligned opposite one another in pairs, forming a double capacitance, and a second group of four cylinders (8', 9', 10', 11') mutually offset by a predetermined interval in the direction of the waveguide axis, where each cylinder consists of low-loss dielectric material.

IPC 1-7  
**H01Q 13/06**

IPC 8 full level  
**H01P 1/161** (2006.01); **H01Q 13/02** (2006.01); **H01Q 13/06** (2006.01)

CPC (source: EP)  
**H01P 1/161** (2013.01); **H01Q 13/0258** (2013.01)

Cited by  
DE4113760A1; EP0252269A1; EP0235846A3

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 0122391 A1 19841024; EP 0122391 B1 19880601**; AT E34885 T1 19880615; DE 3305494 A1 19840823; DE 3471839 D1 19880707

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