

Title (en)  
DIRECTIONAL RADIO MICROWAVE ANTENNA

Publication  
**EP 0097932 B1 19870916 (DE)**

Application  
**EP 83106196 A 19830624**

Priority  
DE 3224257 A 19820628

Abstract (en)  
[origin: EP0097932A1] 1. A micro-wave radio relay antenna of mussel-shaped construction, comprising a reflector (1) designed as an eccentric section of a paraboloid of rotation and supplied by a primary radiator system in accordance with the offset principle, and bounded at its sides and its base by metallic walls (3, 4, 5), characterised in that at the level of that part (2) of the primary radiator system which directly irradiates the reflector (1), the length of the lateral boundary walls (3, 4) in the antenna radiation direction is contrived to be approximately such that this part (2) of the primary radiator system - when projected onto the lateral boundary walls - lies approximately in the centre between the antenna aperture and the reflector (1), that the rectilinear, aperture-side edges of the two lateral boundary walls (3, 4) extend such that the surface vector (e) at right angles to the aperture is directed obliquely upwards when the primary radiator system (2) is in the lower position and is directed obliquely downwards when the primary radiator system is in the upper position, that the lateral boundary walls (3, 4) are bent inwards and the bend lines (10, 11) extend approximately vertically, and that when that part of the primary radiator system which directly irradiates the reflector (1) is projected onto the lateral boundary walls (3, 4), the bend lines (10, 11) lie between this part (2) and the aperture.

IPC 1-7  
**H01Q 19/13**

IPC 8 full level  
**H01Q 19/13** (2006.01)

CPC (source: EP)  
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Cited by  
FR2611090A1; WO9001223A1

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**EP 0097932 A1 19840111; EP 0097932 B1 19870916**; AT E29803 T1 19871015; DE 3224257 A1 19831229; DE 3373750 D1 19871022; DK 294583 A 19831229; DK 294583 D0 19830627; FI 73339 B 19870529; FI 73339 C 19870910; FI 832338 A0 19830627; FI 832338 L 19831229; JP S5910006 A 19840119

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