

Title (en)  
BROADBAND DIRECTIONAL ANTENNA

Publication  
**EP 0124559 B1 19870304 (DE)**

Application  
**EP 83903501 A 19831115**

Priority  
DE 3242272 A 19821115

Abstract (en)  
[origin: WO8402038A1] Wide spectrum directional antenna with at least one antenna wing (1). The antenna wing has a semi-heart shape in the longitudinal direction to obtain a simple construction form in the case of the largest possible spectrum width and relatively small variations of the input resistance in the field of the broadband of the antenna wing (1). The shape of the two antenna wings (1) as a double antenna is similar to the shape of a heart. The useful broadband frequency spectrum of this antenna extends uninterruptedly from a lower limit frequency of which the wavelength is substantially equal to the triple of the length L of the antenna. The input resistance is constant or decreases slightly and the antenna gain increases with the frequency up to arbitrarily high frequencies. The maximum broadcast direction of the double antenna coincides with the symmetry axis of heart-shaped radiation device and is turned away from the point of the heart forming the power supply (3) of the antenna wings.

IPC 1-7  
**H01Q 9/28**; **H01Q 13/08**

IPC 8 full level  
**H01Q 9/28** (2006.01); **H01Q 13/08** (2006.01)

CPC (source: EP)  
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