

Title (en)

Tuned helical antennae consisting of two quadrifilar antennas fit into each other.

Title (de)

Wendelförmige Resonanzantenne, bestehend aus je vier Wendelleitern übereinander.

Title (fr)

Antenne en hélice, quadrifilaire, résonnante bicouche.

Publication

EP 0427654 B1 19950208 (FR)

Application

EP 90460041 A 19901107

Priority

FR 8914952 A 19891110

Abstract (en)

[origin: EP0427654A1] The present device relates to a novel antenna structure offering a near hemispherical radiating pattern and capable of offering a relatively wide pass band so as to be able to clear therein two neighbouring sub-bands or else a single, wide transmission band. <??>The antenna is of the type comprising a quadrifilar helix (11) consisting of two bifilar helices arranged orthogonally and excited in phase quadrature, and includes at least one second quadrifilar helix (12) coaxial and electromagnetically coupled with the said first quadrifilar helix (11). <??>Preferred application to L-band communications between geostationary satellites or in transit with mobiles equipped with such antennas. <IMAGE>

IPC 1-7

H01Q 11/08

IPC 8 full level

H01Q 5/00 (2006.01); **H01Q 11/08** (2006.01)

CPC (source: EP US)

H01Q 11/08 (2013.01 - EP US)

Cited by

FR2746547A1; US5920292A; US5298910A; US6097934A; FR2746548A1; EP0856906A3; EP0715369A1; US5572227A; US5828348A; CN110518370A; EP0777293A1; US5870066A; US5909196A; US5793338A; CN1109370C; US6181295B1; US6608604B1; US8089421B2; US7903044B2; WO9735356A1; WO9735357A1; WO9934476A1; WO9711507A1; WO9828815A1; WO9706575A1; KR100299886B1; WO9828817A1; WO9706579A1

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