

Title (en)

A compact multi-polarized broadband antenna.

Title (de)

Mehrfach polarisierte kompakte Breitbandantenne.

Title (fr)

Antenne compacte à large bande à polarisation multiple.

Publication

**EP 0393875 A1 19901024 (EN)**

Application

**EP 90303585 A 19900404**

Priority

US 33977489 A 19890418

Abstract (en)

The disclosure relates to a multipolarized broad band antenna and antenna system wherein the antenna structure is formed on a substrate, the antenna structure on the substrate (32) including a central feedpoint, a first antenna element (31) having a plurality of regions composed of first plural interconnected concentric sectors of circles of diminishing radius extending to the feedpoint, and a second antenna element (33) having a plurality of regions composed of second plural interconnected concentric sectors of circles of diminishing radius extending to the feedpoint, the second plural concentric sectors being interleaved with the first plural concentric sectors. The antenna substrate (32) acts as a diaphragm and moves up and down at the center. Therefore the antenna is fed by coaxial lines (36,37) at its perimeter where there is no movement between the antenna and the feeding lines.

IPC 1-7

**H01Q 9/27**

IPC 8 full level

**H01Q 9/27** (2006.01); **H01Q 11/10** (2006.01)

CPC (source: EP)

**H01Q 9/27** (2013.01); **H01Q 11/105** (2013.01)

Citation (search report)

- [Y] EP 0198578 A1 19861022 - HAMEL RAYMOND HORACE DU
- [Y] DE 2400752 A1 19740815 - MARCONI CO LTD
- [A] US 3039099 A 19620612 - CHAIT HERMAN N, et al
- [A] US 4772891 A 19880920 - SVY KOSAL [US]
- [A] US 4636802 A 19870113 - MIDDLETON JR WILLIAM J [US]
- [A] GB 2160021 A 19851211 - DECCA LTD
- [A] PATENT ABSTRACTS OF JAPAN

Cited by

CN107611598A; CN114421151A; EP1142065A4; EP0482756A3; FR2756976A1; CN112751181A; FR2687852A1; US5357223A; US2013050048A1; US8912974B2

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