

Title (en)  
Dual polarised antenna element

Title (de)  
Dual polarisiertes Antennenelement

Title (fr)  
Élément d'antenne à double polarisation

Publication  
**EP 0948084 A3 20010404 (DE)**

Application  
**EP 99102424 A 19990209**

Priority  
DE 19815003 A 19980403

Abstract (en)  
[origin: EP0948084A2] The antenna element has a planar radiation element (2) in a first plane, a metaled surface (4) in a second plane with at least two slots (5,6) arranged beneath the radiator element and a supply line structure (7,8) in a third plane coupled to the slots. One slot (5) on a radiator element symmetry line (11) and at least one other slot (6) is orthogonal and mirror symmetrical to the symmetry line. The slots are coupled to separate supply lines. The slot running orthogonally w.r.t. the symmetry line is coupled to a supply line, which forms a mirror symmetrical supply branch, at two points (12,13) arranged mirror symmetrically w.r.t. the symmetry line.

IPC 1-7  
**H01Q 9/04**

IPC 8 full level  
**H01Q 9/04** (2006.01)

CPC (source: EP US)  
**H01Q 9/0435** (2013.01 - EP US); **H01Q 9/0457** (2013.01 - EP US); **H01Q 9/0478** (2013.01 - EP US)

Citation (search report)

- [PX] WO 9849741 A1 19981105 - ERICSSON TELEFON AB L M [SE]
- [X] LINDMARK B: "A NOVEL DUAL POLARIZED APERTURE COUPLED PATCH ELEMENT WITH A SINGLELAYER FEED NETWORK AND HIGH ISOLATION", IEEE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM,US,NEW YORK, NY: IEEE, 14 July 1997 (1997-07-14), pages 2190 - 2193, XP000790877, ISBN: 0-7803-4179-1
- [DA] BRACHAT P ET AL: "PRINTED RADIATING ELEMENT WITH TWO HIGHLY DECOUPLED INPUT PORTS", ELECTRONICS LETTERS,GB,IEE STEVENAGE, vol. 31, no. 4, 16 February 1995 (1995-02-16), pages 245 - 246, XP000513667, ISSN: 0013-5194
- [A] MURAKAMI Y ET AL: "DUAL SLOT-COUPLED MICROSTRIP ANTENNA FOR DUAL FREQUENCY OPERATION", ELECTRONICS LETTERS,GB,IEE STEVENAGE, vol. 29, no. 22, 28 October 1993 (1993-10-28), pages 1906 - 1907, XP000420967, ISSN: 0013-5194

Cited by  
EP2482383A4

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0948084 A2 19991006; EP 0948084 A3 20010404; EP 0948084 B1 20060830**; DE 19815003 A1 19991014; DE 59913804 D1 20061012; US 6107965 A 20000822

DOCDB simple family (application)  
**EP 99102424 A 19990209**; DE 19815003 A 19980403; DE 59913804 T 19990209; US 26758099 A 19990312