

Title (en)
Multi-layered antenna arrangement

Title (de)
Mehrlagige Antennenanordnung

Title (fr)
Agencement d'antenne à couches multiples

Publication
EP 1006608 A3 20010613 (DE)

Application
EP 99123247 A 19991129

Priority
DE 19855115 A 19981130

Abstract (en)
[origin: EP1006608A2] The arrangement has at least one patch element (12) in a first conductive coating with associated first and second stimulation elements in second and third conductive coatings. The stimulation elements contain mutually orthogonal supply lines (15), each aligned towards its associated patch element and electromagnetically coupled to it. The first conductive coating has a matrix of apertures at least in the first patch element and aligned with the supply line directions.

IPC 1-7
H01Q 9/04; **H01Q 21/00**; **H01Q 21/06**

IPC 8 full level
H01Q 9/04 (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP)
H01Q 9/0428 (2013.01); **H01Q 21/0087** (2013.01); **H01Q 21/065** (2013.01)

Citation (search report)
• [XY] EP 0342175 A2 19891115 - COMMUNICATIONS SATELLITE CORP [US]
• [A] US 5241321 A 19930831 - TSAO CHICH-HSING A [US]
• [Y] HABIB L ET AL: "CROSS-SHAPED PATCH WITH ETCHED BARS FOR DUAL POLARISATION", ELECTRONICS LETTERS,GB,IEE STEVENAGE, vol. 29, no. 10, 13 May 1993 (1993-05-13), pages 916 - 918, XP000367671, ISSN: 0013-5194

Cited by
EP1160917A1; DE102005010895A1; DE102005010895B4; US7471248B2; US7327317B2; US7589676B2; WO2005008833A1; WO2012110366A1; US9640870B2

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 1006608 A2 20000607; **EP 1006608 A3 20010613**; **EP 1006608 B1 20040519**; AT E267471 T1 20040615; DE 19855115 A1 20000608; DE 59909519 D1 20040624

DOCDB simple family (application)
EP 99123247 A 19991129; AT 99123247 T 19991129; DE 19855115 A 19981130; DE 59909519 T 19991129