

Title (en)
ANTENNA PROVIDED WITH AN ASSEMBLY OF FILTERING MATERIALS

Title (de)
ANTENNE MIT EINER FILTERMATERIALANORDNUNG

Title (fr)
ANTENNE POURVUE D'UN ASSEMBLAGE DE MATERIAUX FILTRANT

Publication
EP 1145379 A1 20011017 (FR)

Application
EP 00981432 A 20001117

Priority
• FR 0003205 W 20001117
• FR 9914521 A 19991118

Abstract (en)
[origin: WO0137373A1] The invention concerns an antenna comprising a probe capable of transforming electrical energy into electromagnetic energy and inversely. It further comprises an assembly of elements made of at least two materials different in permittivity and/or permeability and/or conductivity within which said probe is arranged, the arrangement of the elements in said assembly ensuring radiation and spatial and frequency filtering of the electromagnetic waves produced or received by said probe, which filtering allows in particular one or several operating frequencies (f) of the antenna inside a frequency band gap (B).

IPC 1-7
H01Q 15/00; **H01Q 1/40**; **H01Q 19/06**; **H01Q 19/00**; **H01Q 19/10**

IPC 8 full level
H01Q 15/06 (2006.01); **H01Q 1/40** (2006.01); **H01Q 15/00** (2006.01); **H01Q 19/00** (2006.01); **H01Q 19/06** (2006.01); **H01Q 19/10** (2006.01)

CPC (source: EP US)
H01Q 1/40 (2013.01 - EP US); **H01Q 15/006** (2013.01 - EP US); **H01Q 19/005** (2013.01 - EP US); **H01Q 19/06** (2013.01 - EP US); **H01Q 19/062** (2013.01 - EP US); **H01Q 19/10** (2013.01 - EP US)

Citation (search report)
See references of WO 0137373A1

Cited by
US8149180B2

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)
WO 0137373 A1 20010525; AT E336091 T1 20060915; AT E371964 T1 20070915; AU 1868401 A 20010530; CA 2360432 A1 20010525; CA 2360432 C 20081007; CN 100424930 C 20081008; CN 1203579 C 20050525; CN 1337078 A 20020220; CN 1519988 A 20040811; DE 60030013 D1 20060921; DE 60030013 T2 20070222; DE 60036195 D1 20071011; DE 60036195 T2 20080515; EP 1145379 A1 20011017; EP 1145379 B1 20070829; EP 1416586 A1 20040506; EP 1416586 B1 20060809; ES 2269897 T3 20070401; ES 2292491 T3 20080316; FR 2801428 A1 20010525; FR 2801428 B1 20041015; JP 2003514476 A 20030415; JP 2004159372 A 20040603; JP 4714417 B2 20110629; JP 4727884 B2 20110720; US 6549172 B1 20030415

DOCDB simple family (application)
FR 0003205 W 20001117; AT 00981432 T 20001117; AT 03027264 T 20001117; AU 1868401 A 20001117; CA 2360432 A 20001117; CN 00802850 A 20001117; CN 200310113182 A 20001117; DE 60030013 T 20001117; DE 60036195 T 20001117; EP 00981432 A 20001117; EP 03027264 A 20001117; ES 00981432 T 20001117; ES 03027264 T 20001117; FR 9914521 A 19991118; JP 2001537822 A 20001117; JP 2004051839 A 20040226; US 88951701 A 20010718