

Title (en)
Wideband loop antenna

Title (de)
Breitbandige Loop-Antenne

Title (fr)
Antenne à boucle large bande

Publication
EP 1416585 A1 20040506 (EN)

Application
EP 02024241 A 20021031

Priority
EP 02024241 A 20021031

Abstract (en)
The device has loop antenna element (18) comprising antenna sections (20,22) that are provided in the same plane. The antenna section (24) is provided in another plane parallel to former plane, and the antenna sections (26,28) are provided for interconnecting antenna sections (20,22,24). The antenna sections form a three-dimensional structure with two-dimensional extension in one of the planes. An independent claim is also included for antenna arrangement.

IPC 1-7
H01Q 7/00; **H01Q 9/26**; **H01Q 1/24**

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 7/00** (2006.01); **H01Q 9/26** (2006.01)

CPC (source: EP)
H01Q 1/241 (2013.01); **H01Q 7/00** (2013.01); **H01Q 9/26** (2013.01)

Citation (search report)

- [X] US 2002018021 A1 20020214 - KOYANAGI YOSHIO [JP], et al
- [X] GB 692692 A 19530610 - CHARLES ALEXANDER VIVIAN HEATH
- [A] WO 0227862 A1 20020404 - RANGESTAR WIRELESS INC [US]
- [A] US 6225952 B1 20010501 - HARANO NOBUYA [JP]

Cited by
CN114824768A; EP1788663A1; EP1653396A3; CN103515706A; GB2484540B; US7612723B2; WO2011104593A1; US7605764B2; US7397441B1; US8207899B2; US7242359B2; US9502771B2; US9543650B2; US9948003B2

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

DOCDB simple family (publication)
EP 1416585 A1 20040506; **EP 1416585 B1 20090211**; AT E422719 T1 20090215; CN 1708877 A 20051214; CN 1708877 B 20100407; DE 60231127 D1 20090326

DOCDB simple family (application)
EP 02024241 A 20021031; AT 02024241 T 20021031; CN 200380102659 A 20031017; DE 60231127 T 20021031