

Title (en)

ANTENNA DEVICE AND PORTABLE TERMINAL

Title (de)

ANTENNENEINRICHTUNG UND TRAGBARES ENDGERÄT

Title (fr)

DISPOSITIF D'ANTENNE ET TERMINAL PORTABLE

Publication

EP 1335448 A4 20041215 (EN)

Application

EP 00970214 A 20001031

Priority

JP 0007637 W 20001031

Abstract (en)

[origin: EP1335448A1] An antenna device (3a) includes a substrate (11) and an antenna (21) provided on the substrate (11) and having an electrical length of $(\lambda/2) \times A$ (A is an integer). The antenna (21) includes a plate antenna (21b) positioned at a portion where an electrical length from an end portion (21d) is approximately $\lambda/4 + (\lambda/2) \times B$ (B is an integer), and a meander line antenna (21a, 21c) connected to the plate antenna (21b). <IMAGE>

IPC 1-7

H01Q 1/24; **H01Q 1/36**; **H01Q 1/38**; **H01Q 9/04**

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/36** (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/16** (2006.01); **H01Q 9/26** (2006.01); **H01Q 9/28** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 1/36** (2013.01); **H01Q 1/362** (2013.01); **H01Q 1/38** (2013.01); **H01Q 9/16** (2013.01); **H01Q 9/26** (2013.01); **H01Q 9/285** (2013.01)

Citation (search report)

- [X] EP 0944128 A1 19990922 - MURATA MANUFACTURING CO [JP]
- [A] EP 0847103 A2 19980610 - KYOCERA CORP [JP]
- [A] US 5898411 A 19990427 - MCGAFFIGAN FRANCIS D [US], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 09 31 July 1998 (1998-07-31)
- See references of WO 0239542A1

Designated contracting state (EPC)

AT BE CH DE FR GB LI

DOCDB simple family (publication)

EP 1335448 A1 20030813; **EP 1335448 A4 20041215**; CN 1229893 C 20051130; CN 1415126 A 20030430; JP WO2002039542 A1 20040318; WO 0239542 A1 20020516

DOCDB simple family (application)

EP 00970214 A 20001031; CN 00818025 A 20001031; JP 0007637 W 20001031; JP 2002541755 A 20001031