

Title (en)  
ANTENNA ARRANGEMENT AND RADIO DEVICE

Title (de)  
ANTENNENANORDNUNG UND FUNKGERÄT

Title (fr)  
ENSEMBLE ANTENNE ET APPAREIL RADIO

Publication  
**EP 1086509 B1 20070718 (DE)**

Application  
**EP 99907284 A 19990127**

Priority  
• DE 9900199 W 19990127  
• DE 19822371 A 19980519

Abstract (en)  
[origin: DE19822371A1] A reference potential connection (15) is connected via an impedance (20) to the reference potential of a reference potential plane (30). The impedance is high resistance in a first operating frequency range, and low resistance in a second operating frequency range. The impedance may be in the form of a line (20) whose length is selected according to the frequency ranges. The length may be a quarter of the operating wavelength in the second operating frequency range.- DETAILED DESCRIPTION - A radio apparatus, especially a mobile radiotelephone or a cordless telephone is also claimed

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 9/04** (2006.01); **H01Q 5/328** (2015.01); **H01Q 9/30** (2006.01); **H04B 1/18** (2006.01)

CPC (source: EP US)  
**H01Q 5/328** (2015.01 - EP US); **H01Q 9/0421** (2013.01 - EP US); **H01Q 9/0442** (2013.01 - EP US); **H01Q 9/14** (2013.01 - EP US)

Designated contracting state (EPC)  
DE GB IT SE

DOCDB simple family (publication)  
**DE 19822371 A1 19991125**; **DE 19822371 B4 20180308**; DE 59914417 D1 20070830; EP 1086509 A1 20010328; EP 1086509 B1 20070718; JP 2002516505 A 20020604; JP 4112178 B2 20080702; US 6518922 B1 20030211; WO 9960662 A1 19991125

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**DE 19822371 A 19980519**; DE 59914417 T 19990127; DE 9900199 W 19990127; EP 99907284 A 19990127; JP 2000550180 A 19990127; US 70089801 A 20010215