

Title (en)

A double-acting antenna and a mobile phone comprising such an antenna

Title (de)

Doppelt wirkende Antenne und Mobiltelefon mit einer solchen Antenne

Title (fr)

Une antenne à double action et un téléphone mobile avec une telle antenne

Publication

EP 0736925 A2 19961009 (EN)

Application

EP 96660006 A 19960322

Priority

FI 951668 A 19950407

Abstract (en)

The invention relates to a double-acting antenna of a radio communication device, whereby the antenna can be pushed partly inside the cover (4) of the radio communication device and whereby it function as an antenna both in the extracted or active position (Fig.3a) and in the retracted or passive position (Fig.3b). In the passive position that section (2) of the antenna which is pushed inside the cover (4) of the radio communication device functions as a part of the matching circuit (19), which adapts the impedance of the section left outside so that it corresponds to the impedance of the antenna port (11) of the radio communication device. For this purpose the arrangement comprises connecting means (10) to connect one end of the retracted section (2) to the ground potential the electrical length of the retracted section (2) is substantially shorter than a quarter of the used wave-length.

IPC 1-7

H01Q 1/24; **H01Q 1/10**

IPC 8 full level

H03H 7/38 (2006.01); **H01Q 1/10** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/36** (2006.01)

CPC (source: EP)

H01Q 1/244 (2013.01)

Cited by

US6097934A; EP1150378A3; GB2335312B; US5999133A; GB2324658A; GB2324658B; GB2333903A; US6016125A; GB2333903B; ES2154611A1; US6531986B2; US6259411B1; WO9934476A1; WO9809342A1; WO9723014A1; US6683007B1; US6964724B2; US7862658B2; US8420549B2

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0736925 A2 19961009; **EP 0736925 A3 19971105**; **EP 0736925 B1 20011017**; DE 69615897 D1 20011122; DE 69615897 T2 20020425; FI 951668 A0 19950407; FI 97499 B 19960913; FI 97499 C 19961227; JP H08316716 A 19961129

DOCDB simple family (application)

EP 96660006 A 19960322; DE 69615897 T 19960322; FI 951668 A 19950407; JP 8252396 A 19960404