

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 B1 20011017 (EN)**

Application

**EP 96660006 A 19960322**

Priority

FI 951668 A 19950407

Abstract (en)

[origin: EP0736925A2] 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

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CPC (source: EP)

**H01Q 1/244** (2013.01)

Cited by

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

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