

Title (en)

Antenna device and portable radio communication device comprising such an antenna device

Title (de)

Antennenvorrichtung und tragbare Funkkommunikationsvorrichtung mit einer solchen Antennenvorrichtung

Title (fr)

Dispositif d'antenne et dispositif de communication radio portable comportant un tel dispositif d'antenne

Publication

**EP 2270925 A1 20110105 (EN)**

Application

**EP 09008751 A 20090703**

Priority

EP 09008751 A 20090703

Abstract (en)

The present invention relates to an antenna device for a portable radio communication device operable in at least a first high-frequency band and a second low-frequency band. The antenna device comprises: an on-ground radiating element (2) having at least a first port (3) for feeding of the first high-frequency band and a second port (4) for feeding of the second low-frequency band; first selecting means (7) connected to the first port, and second selecting means (8) connected to the second port; the first selecting means is configured to open-end (P1) the first port and the second selecting means is configured to connect the second port to a second matching network (P6, P7, P8) through which the second low-frequency band is fed (10), when the antenna device operates in the second low-frequency band; and the second selecting means is configured to ground (P5) the second port and the first selecting means is configured to connect the first port to a first matching network (P2, P3, P4) through which the first high-frequency band is fed (9), when the antenna device operates in the first high-frequency band.

IPC 8 full level

**H01Q 9/04** (2006.01)

CPC (source: EP)

**H01Q 9/0407** (2013.01); **H01Q 9/0421** (2013.01); **H01Q 9/0442** (2013.01)

Citation (search report)

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- [A] EP 0892459 A1 19990120 - NOKIA MOBILE PHONES LTD [FI]
- [A] WO 03096474 A1 20031120 - SONY ERICSSON MOBILE COMM AB [SE], et al

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CN104176823A

Designated contracting state (EPC)

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