

Title (en)

An antenna device, an antenna system and a portable radio communication device comprising such an antenna device

Title (de)

Antennenvorrichtung, Antennensystem und tragbare Funkkommunikationsvorrichtung mit solch einer Antennenvorrichtung

Title (fr)

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

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Application

EP 09152694 A 20090212

Priority

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Abstract (en)

The present invention relates to an antenna device for a portable radio communication device, wherein the antenna device comprises an elongated radiating element (1) configured to, in a first state, work as an electric resonant monopole antenna and to, in a second state, work as a magnetic resonant half-loop antenna.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 7/00** (2006.01); **H01Q 9/42** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 5/314** (2015.01); **H01Q 7/00** (2013.01); **H01Q 9/145** (2013.01); **H01Q 9/42** (2013.01)

Citation (applicant)

- WO 2006129210 A2 20061207 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- US 6204819 B1 20010320 - HAYES GERARD JAMES [US], et al
- WO 2007042615 A1 20070419 - PULSE FINLAND OY [FI], et al

Citation (search report)

- [XY] WO 2006129210 A2 20061207 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [X] US 6204819 B1 20010320 - HAYES GERARD JAMES [US], et al
- [Y] WO 2007042615 A1 20070419 - PULSE FINLAND OY [FI], et al
- [A] WO 03096474 A1 20031120 - SONY ERICSSON MOBILE COMM AB [SE], et al

Cited by

EP2720316A1; CN106450677A; EP2732504A4; CN112701470A; EP4020707A4; JP2016192654A; US10476284B2; US8344959B2; US8610638B2; WO2013007868A1; US9077069B2; US9331381B2; US8933902B2; US9781496B2; EP2894717B1; WO2013088650A1; WO2013103564A1; WO2023273786A1

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