

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 2234207 A1 20100929 (EN)

Application

EP 09155865 A 20090323

Priority

EP 09155865 A 20090323

Abstract (en)

An antenna device operable in at least a first lower frequency band and a second higher frequency band comprises a single solid unbranched radiating element (16) having a first (18) and a second (20) opposite end, a first feeding connection (FC1) to the first end (18), a first connection path (P1) between the radiating element and a first frequency band signal handling unit (34), a tuning element (T1) connected to the radiating element for tuning the radiating element for resonance in the first band, a first signal passing and blocking arrangement (24) allowing signals in the first band to pass and blocking signals in the second band, a second connection path (P2) between the radiating element and a second frequency band signal handling unit (32) and a second signal passing and blocking arrangement (28) allowing signals in the second band to pass and blocking signals in the first band. At least one connection path is connected to the first feeding connection.

IPC 8 full level

H01Q 9/04 (2006.01); **H01Q 1/24** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/321** (2015.01); **H01Q 5/335** (2015.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 5/321** (2015.01); **H01Q 5/335** (2015.01); **H01Q 9/0407** (2013.01); **H01Q 9/0442** (2013.01); **H01Q 9/045** (2013.01)

Citation (applicant)

- US 6204819 B1 20010320 - HAYES GERARD JAMES [US], et al
- US 2006097918 A1 20060511 - OSHIYAMA TADASHI [JP], et al
- US 2004041734 A1 20040304 - SHIOTSU SHINICHI [JP], et al

Citation (search report)

- [Y] US 2006097918 A1 20060511 - OSHIYAMA TADASHI [JP], et al
- [Y] EP 1378959 A1 20040107 - UBE INDUSTRIES [JP], et al
- [Y] EP 1496565 A1 20050112 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [Y] US 6470173 B1 20021022 - OKADA TAKAHIRO [JP], et al
- [Y] US 2008055164 A1 20080306 - ZHANG ZHIJUN [US], et al
- [A] US 2006262028 A1 20061123 - TAKEI KEN [JP]
- [A] WO 0191235 A1 20011129 - ERICSSON TELEFON AB L M [SE], et al

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