

Title (en)  
Integrated antenna for mobile telephones

Title (de)  
Integrierte Antenne für Mobilfunktelefone

Title (fr)  
Antenne intégrée pour téléphones portables

Publication  
**EP 1154518 B1 20060308 (DE)**

Application  
**EP 01440125 A 20010504**

Priority  
DE 10022107 A 20000508

Abstract (en)  
[origin: EP1154518A2] The antenna (1) has an earth plate (2) and a radiator (3) positioned parallel to the earth plate and electrically coupled to it at one end, with a voltage minimum obtained at this end at the lower resonance frequency of the antenna, a voltage maximum obtained at the free end (6) of the radiator, which is capacitively coupled to a point along the radiator, for providing a further resonance frequency which is less than triple the first resonance frequency. An Independent claim for a mobile radio device is also included.

IPC 8 full level  
**H01Q 9/04** (2006.01); **H01Q 1/24** (2006.01); **H01Q 13/08** (2006.01); **H01Q 1/36** (2006.01); **H01Q 5/321** (2015.01); **H01Q 5/357** (2015.01); **H01Q 9/42** (2006.01)

CPC (source: EP US)  
**H01Q 1/243** (2013.01 - EP US); **H01Q 1/36** (2013.01 - EP US); **H01Q 5/321** (2015.01 - EP US); **H01Q 5/357** (2015.01 - EP US); **H01Q 9/0421** (2013.01 - EP US); **H01Q 9/42** (2013.01 - EP US)

Cited by  
EP2093831A4; EP2169766A1; DE102005038196A1; FR3026895A1; US8816911B2; US8108021B2; US8456366B2; US6903686B2; US6980154B2; WO2007045665A1; WO2011101714A1; WO2004062032A1; US8215561B2; WO2008078437A1; US8098211B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 1154518 A2 20011114; EP 1154518 A3 20020828; EP 1154518 B1 20060308**; AT E320088 T1 20060315; AU 4205101 A 20011115; DE 10022107 A1 20011115; DE 50109152 D1 20060504; HU 0101658 D0 20010628; HU P0101658 A2 20020128; HU P0101658 A3 20020930; JP 2002009539 A 20020111; JP 4823433 B2 20111124; US 2002005809 A1 20020117; US 6473044 B2 20021029

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**EP 01440125 A 20010504**; AT 01440125 T 20010504; AU 4205101 A 20010503; DE 10022107 A 20000508; DE 50109152 T 20010504; HU P0101658 A 20010425; JP 2001129152 A 20010426; US 84935501 A 20010507