

Title (en)
Double antenna, in particular for vehicle

Title (de)
Doppelantenne, insbesondere für ein Fahrzeug

Title (fr)
Antenne double, en particulier pour véhicule

Publication
EP 0851532 B1 20020911 (FR)

Application
EP 97403142 A 19971223

Priority
• FR 9616113 A 19961227
• FR 9713099 A 19971020

Abstract (en)
[origin: EP0851532A1] The aerial comprises a unipolar structure (20) for low frequencies on top of which is a dipole structure (1) for high frequencies. The cable (2) for supplying the dipole aerial has an outer conductor (20) which is used to form the unipolar aerial in the section above the earth plate (M). The section of unipolar aerial which lies beneath earth plane is wound into coils (22) in order to form the secondary of a transformer which then supplies the unipolar aerial. The coils lie within a screened earth space inside the bodywork of the vehicle, the surface of the vehicle forming the earth plane. A frequency switching device is provided in order to select between the different modes of the aerial. The aerial is operational between 30 and 400 MHz.

IPC 1-7
H01Q 5/02; **H01Q 9/16**; **H01Q 9/30**

IPC 8 full level
H01Q 5/02 (2006.01); **H01Q 5/15** (2015.01); **H01Q 9/16** (2006.01); **H01Q 9/30** (2006.01)

CPC (source: EP US)
H01Q 5/40 (2015.01 - EP US); **H01Q 9/16** (2013.01 - EP US); **H01Q 9/30** (2013.01 - EP US)

Cited by
FR2943183A1; US9007270B2; WO2010102901A1

Designated contracting state (EPC)
BE CH DE ES FR GB GR IT LI NL

DOCDB simple family (publication)
EP 0851532 A1 19980701; **EP 0851532 B1 20020911**; AU 4926797 A 19980702; CA 2225368 A1 19980627; DE 69715362 D1 20021017; DE 69715362 T2 20030430; FR 2758012 A1 19980703; FR 2758012 B1 19990528; IL 122619 A0 19980816; IL 122619 A 20001206; NO 976107 D0 19971229; NO 976107 L 19980629; PL 323980 A1 19980706; US 5977920 A 19991102

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EP 97403142 A 19971223; AU 4926797 A 19971224; CA 2225368 A 19971219; DE 69715362 T 19971223; FR 9713099 A 19971020; IL 12261997 A 19971216; NO 976107 A 19971229; PL 32398097 A 19971222; US 99456597 A 19971219