

Title (en)  
DIFFERENTIAL DIPOLE ANTENNA SYSTEM WITH A COPLANAR RADIATING STRUCTURE AND TRANSCEIVER DEVICE

Title (de)  
DIFFERENZ-DIPOLANTENNENSYSYSTEM MIT EINER KOPLANAREN STRAHLUNGSSTRUKTUR UND SENDER-/EMPFÄNGEREINRICHTUNG

Title (fr)  
SYSTEME D'ANTENNE DIPOLE DIFFERENTIELLE A STRUCTURE RAYONNANTE COPLANAIRE ET DISPOSITIF D'EMISSION/RECEPTION

Publication  
**EP 2345104 A1 20110720 (FR)**

Application  
**EP 08875626 A 20081107**

Priority  
FR 2008001573 W 20081107

Abstract (en)  
[origin: WO2010052377A1] The invention relates to a differential dipole antenna system (82) that comprises, on the same surface of a dielectric substrate, a first half (18) of a thick radiating dipole, a first conducting strip (20) of a dual-band line for supplying a differential signal, the first conducting strip (20) being connected to the first half (18) of the thick radiating dipole, a second half (28) of a thick radiating dipole and a second conducting strip (30) of the dual-band supply line, said second conducting strip (30) being connected to the second half (28) of the thick radiating dipole. The system further includes, on said same surface, an additional conducting strip (36) defining a short-circuit connecting the first half (18) and the second half (28) of the thick dipole, and a differential resonating filtering device (50) having a bandwidth adapted so as to be combined with the resonance generated by the short circuit (36) so as to generate an antenna impedance adaptation.

IPC 8 full level  
**H01Q 9/28** (2006.01); **H01P 1/203** (2006.01)

CPC (source: EP US)  
**H01P 1/2039** (2013.01 - EP US); **H01Q 9/285** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010052377A1

Cited by  
CN105449379A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**WO 2010052377 A1 20100514**; EP 2345104 A1 20110720; EP 2345104 B1 20120919; ES 2396006 T3 20130218; US 2011248899 A1 20111013; US 8704723 B2 20140422

DOCDB simple family (application)  
**FR 2008001573 W 20081107**; EP 08875626 A 20081107; ES 08875626 T 20081107; US 200813127815 A 20081107