

Title (en)

MULTIPLE WIDE BAND ANTENNA WITH LOW PROFILE

Title (de)

BREITBANDIGE MEHRFACHANTENNE MIT GERINGEM QUERSCHNITT

Title (fr)

ANTENNE MULTIPLE LARGE BANDE A FAIBLE PROFIL

Publication

**EP 2422403 A1 20120229 (FR)**

Application

**EP 10706982 A 20100223**

Priority

- EP 2010052303 W 20100223
- FR 0902008 A 20090424

Abstract (en)

[origin: WO2010121851A1] The invention relates to a low-profile broadband multiple antenna characterised in that said antenna comprises at least the following components arranged as specified below: a dipole D1 arranged in the upper portion of said antenna, said dipole comprising at least one upper antenna component (D1s) connected to the core (140) of a multi-axial cable including a core and n sheaths and in which the bottom basic component (D1b) is connected to the first sheath (141) adjacent to the core (140); a connection device (20, 40) positioned between a top component Dks of a dipole Dk and the bottom component Dkb of said dipole Dk, the top component Dks being connected to the sheath with an index of (k-1) of the multi-axial cable after the assembly of the core (140) and the sheaths with indexes of (1 to k-1) are wound into Q turns (41) around a magnetic core (42) and the bottom component Dkb of the dipole Dk is connected to the sheath with an index of k, and in that said connection device (20, 40) includes at least one single-wire winding with P turns (43) on the same magnetic core (42) connecting said bottom component Dkb of said dipole Dk to the sheath with an index of (k-1), at the point (45) corresponding to the start of the winding (41) in order to perform broadband impedance adaptation and to supply power to the dipole Dk.

IPC 8 full level

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CPC (source: EP US)

**H01Q 1/52** (2013.01 - EP US); **H01Q 5/00** (2013.01 - EP US); **H01Q 5/321** (2015.01 - EP US); **H01Q 5/40** (2015.01 - EP US); **H01Q 9/28** (2013.01 - EP US); **H01Q 21/10** (2013.01 - EP US)

Citation (search report)

See references of WO 2010121851A1

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