

Title (en)

RADIATING SYSTEM COMPRISING TWO STACKED ANTENNAS WORKING IN THE SAME FREQUENCY BAND

Publication

**EP 0082053 B1 19870128 (FR)**

Application

**EP 82402217 A 19821203**

Priority

FR 8123439 A 19811215

Abstract (en)

[origin: EP0082053A1] 1. A radiating system comprising two superimposed antennas (1, 2) having a vertical axis XX and one of which is a transmitter (2) and the other a receiver (1) antenna, the two antennas being intended to operate within the same frequency range and each comprising four vertical dipoles (11-14, 21-24) arranged at the corners of a square (A, B, C, D), and wherein each antenna is associated with a 3 dB coupler (51) a first terminal of which is connected to a feed cable (10) and with a junction box (50) for coupling second and third conjugate terminals of the coupler to the dipoles of the respective antenna, characterized in that, for each antenna, the coupler (51) and the junction box (50) associated with this antenna are arranged at the level of this antenna substantially along the axis XX, and the dipoles are affixed on the junction box (50), and in that a cylindrical vertical radome (4) on the inner wall of which the dipoles are affixed, forms the carrier of the two antennas.

IPC 1-7

**H01Q 21/26**; **H01Q 1/42**

IPC 8 full level

**H01Q 1/42** (2006.01); **H01Q 21/26** (2006.01)

CPC (source: EP)

**H01Q 1/42** (2013.01); **H01Q 21/26** (2013.01)

Cited by

EP1385231A1; GB2315603A; GB2315603B; EP0352160A1; FR2634598A1; ITRM20100339A1; WO2011161711A1

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