

Title (en)
ULTRA-WIDEBAND ANTENNA WITH EXCELLENT DESIGN FLEXIBILITY

Title (de)
ULTRABREITBAND-ANTENNE MIT AUSGEZEICHNETER ENTWURFSFLEXIBILITÄT

Title (fr)
ANTENNE ULTRA-LARGE BANDE OFFRANT UNE GRANDE FLEXIBILITÉ DE CONCEPTION

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Abstract (en)
[origin: WO2006100306A1] The invention relates to an ultra-wideband antenna (1) which is characterised in that it comprises: a zone (2) which is defined between first (3) and second (4) shaped surfaces (3, 4) such as to form a radiating element, whereby said surfaces (3, 4) are also rotationally symmetrical in relation to a longitudinal axis (Z) of the antenna, are disposed opposite one another in respect of a plane that is orthogonal to the longitudinal axis (Z) and that contains the horizontal axis (X) and have a suitable profile and dimensions in order to control the characteristics of an electromagnetic field in the zone (2), such that the antenna has an essentially-constant gain in the frequency band along an azimuth plane; an excitation means (6) which extends in parallel to the longitudinal axis (Z) and which can supply a signal (5) in a localised manner in the central region; and an adapting means (7) which is associated with the first shaped surface (3) and which projects out in the central region of the zone (2) in the direction of the second shaped surface (4), whereby said adapting means can promote a localised coupling between the excitation means (6) and said zone (2).

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