

Title (en)
BROADBAND ANTENNA REFLECTOR FOR A CIRCULARLY-POLARIZED PLANAR WIRE ANTENNA AND METHOD FOR PRODUCING SAID ANTENNA REFLECTOR

Title (de)
BREITBANDANTENNENREFLEKTOR FÜR EINE ZIRKULAR POLARISIERTE FLACHDRAHTANTENNE UND VERFAHREN ZUR HERSTELLUNG DIESES ANTENNENREFLEKTORS

Title (fr)
REFLECTEUR D'ANTENNE LARGE BANDE POUR UNE ANTENNE FILAIRE PLANE A POLARISATION CIRCULAIRE ET PROCEDE DE REALISATION DU REFLECTEUR D'ANTENNE

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Abstract (en)
[origin: WO2012041770A1] The invention relates to the field of circularly-polarized planar wire antennas for very broadband telecommunication systems. It relates to an antenna reflector (3) for such an antenna (2), to an antenna device comprising said antenna reflector (3) and the antenna (2), and to a method for producing said antenna reflector (3). The antenna reflector (3) according to the invention is based on a hybrid structure comprising, on the one hand, a first reflecting region (341A) possessing the electromagnetic properties of an electrical conductor in a first frequency sub-band and, on the other hand, a second reflecting region (342A) having electromagnetic properties akin to a magnetic conductor in a second frequency sub-band. Each reflecting region (341A, 342A) is intended to face a region of the antenna able to emit electromagnetic radiation in the corresponding frequency sub-band so as to reflect the electric field of the rear radiation in phase with the electric field of the front radiation.

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