Title (en)

ARRANGEMENT AND METHOD FOR ELECTRONICALLY TRACKING RF REFLECTOR ANTENNAS

Title (de)

ANORDNUNG UND VERFAHREN ZUR ELEKTRONISCHEN NACHFÜHRUNG VON HF-REFLEKTORANTENNEN

Title (fr)

AGENCEMENT ET PROCÉDÉ DE SUIVI ÉLECTRONIQUE D'ANTENNES À RÉFLECTEURS HF

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Application

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Abstract (en)

[origin: WO2014094698A1] The invention relates to a radio frequency reflector antenna (1) comprising at least one main reflector (2), at least one sub-reflector (3) and at least one horn (4), wherein fixed elements (5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8) for influencing the direction-dependent reception characteristic are present in the beam path between main reflector (2) and horn (4). According to the invention there is provision that the elements (5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8) project into the free aperture face (6) of the horn (4) and are therefore arranged in the close range area (7) of the horn (4). This results in the advantage that by correlating the activation patterns of the elements (5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8) it is possible to generate a polarization-specific tracking signal.

IPC 8 full level

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