

Title (en)

ANTENNA SYSTEM HAVING A RADIATING DIAGRAM RECONFIGURABLE FROM SECTORIAL AND DIRECTIONAL RADIATING DIAGRAMS, AND CORRESPONDING TRANSMITTER AND/OR RECEIVER DEVICE

Title (de)

ANTENNENSYSTEM MIT EINEM ANHAND VON ABSCHNITTS- UND RICHTUNGSSTRAHLUNGSDIAGRAMMEN REKONFIGURIERBAREN STRAHLUNGSDIAGRAMM SOWIE ENTSPRECHENDE SENDE- UND/ODER EMPFANGSVORRICHTUNG

Title (fr)

SYTEME ANTENNAIRE DONT LE DIAGRAMME DE RAYONNEMENT EST RECONFIGURABLE PARMI DES DIAGRAMMES DE RAYONNEMENT SECTORIELS ET DIRECTIFS, ET DISPOSITIF EMETTEUR ET/OU RECEPTEUR CORRESPONDANT

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Application

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- FR 0756664 A 20070720

Abstract (en)

[origin: WO2009013248A1] The invention relates to an antenna system having a radiating diagram that can be reconfigured from a set of diagrams including, for at least one plane associated with a given azimuth direction, at least one directional radiating diagram in said plane and at least one sectorial radiating diagram in said plane. The system includes a plurality of source antennas (74) and a reconfiguration means for switching from one diagram to another in said set of radiating diagrams. The reconfiguration means includes a means (702) for managing the power supply of the source antennas and a dielectric lens (701) focusing the radiation of the powered source antennas. The means (702) for managing the power supply of the source antennas generates a plurality of supply configurations each associated with a radiating diagram distinct from the set of radiating diagrams. The plurality of supply configurations includes, at least for a plane associated with a given azimuth direction: at least a first configuration associated with the directional radiating diagram in said plane, in which N source antenna(s) contained in said plane is/are powered, with $N = 2$; and at least a second configuration associated with a sectorial radiating diagram in said plane, in which N' source antennas contained in said plane are powered, with $N' > N$.

IPC 8 full level

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