

Title (en)

COMPACT DIRECTIONAL ANTENNA, DEVICE COMPRISING SUCH AN ANTENNA

Title (de)

KOMPAKTE RICHTANTENNE, VORRICHTUNG MIT EINER SOLCHEN ANTENNE

Title (fr)

ANTENNE DIRECTIVE COMPACTE, DISPOSITIF COMPORTANT UNE TELLE ANTENNE

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Application

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Abstract (en)

[origin: WO2020187821A1] The invention relates to a directional antenna (10) comprising an array (12) of unitary antenna elements. The array (12) comprises an active antenna element, called "radiator element (20)", which is intended to be electrically connected to a radiofrequency receiver or source, and at least one passive antenna element supplied with power by mutual induction, called "parasitic element (30)". The antenna is noteworthy in that the radiator element (20) is a parasitic resonator antenna comprising a monopole (21), a ground plane (22) and a parasitic cell (23) that is placed in the near field of the monopole (21). In particular embodiments, the ground plane (22) is used to accept tracks of an electronic circuit of a transmitter or receiver device. The antenna performs particularly well in terms of directivity and radiating efficiency, while being highly compact.

IPC 8 full level

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