

Title (en)

HELICAL ANTENNA WITH BUILT-IN DUPLEXING MEANS, AND MANUFACTURING METHODS THEREFORE

Title (de)

WENDELANTENNE MIT INTEGRIERTEM DUPLEXER UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

ANTENNE HELICOIDALE A MOYENS DE DUPLEXAGE INTEGRES, ET PROCEDES DE FABRICATION CORRESPONDANTS

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Application

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Abstract (en)

[origin: CA2248884A1] A helical antenna with built-in duplexing means, including two decoupled coaxial helices that each consist of printed radiating wires (111 to 114) on a substrate and are combined with respective separate miniaturised broadband radiating wire power supply structures (12, 13, 14) printed on the corresponding substrate and provided with at least one hybrid coupler (12, 13, 14) made of semi-localised elements, in order to reduced the size thereof, is disclosed. Said helices are advantageously wound in opposite winding directions (17), and their excitation points are mutually staggered in a plane perpendicular to the axis of said helices. The corresponding manufacturing methods are also disclosed.

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