

Title (en)

ANTENNA SYSTEM FOR REDUCING THE ELECTROMAGNETIC COUPLING BETWEEN ANTENNAS

Title (de)

ANTENNENSYSTEM ZUR VERRINGERUNG DER ELEKTROMAGNETISCHEN KOPPLUNG ZWISCHEN ANTENNEN

Title (fr)

SYSTÈME D'ANTENNES POUR RÉDUIRE LE COUPLAGE ÉLECTROMAGNÉTIQUE ENTRE ANTENNES

Publication

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Application

**EP 15723030 A 20150519**

Priority

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Abstract (en)

[origin: WO2015177170A1] The invention relates to an antenna system comprising at least two radiating elements (110, 120), a first line (130) for neutralising electromagnetic coupling between the at least two radiating elements (110, 120), at least one radiofrequency (RF) power supply line (211, 221) for each radiating element (110, 120), and at least one line (212, 222) per radiating element for short-circuiting the antenna system (110, 120) to a ground plane (100), characterised in that the antenna system further includes: at least one second line (230, 731, 733) for neutralising electromagnetic coupling between said at least two radiating elements (110, 120), and elements (241 to 246) for activating at least some of the neutralisation lines, and in that the activation elements (241 to 246) are designed to selectively activate or deactivate at least some of the neutralisation lines (130, 230, 731, 733) such that, depending on the activation/deactivation thereof, the neutralisation lines (130, 230, 731, 733) ensure maximum neutralisation of the electromagnetic coupling of the radiating elements (110, 120) for a plurality of different frequencies.

IPC 8 full level

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