

Title (en)

ANTENNA SYSTEM FOR NFC READER

Title (de)

ANTENNENSYSTEM FÜR NFC-LESER

Title (fr)

SYSTÈME D'ANTENNE POUR LECTEUR NFC

Publication

EP 3628104 A1 20200401 (EN)

Application

EP 18730101 A 20180427

Priority

- SK 500312017 A 20170427
- IB 2018052929 W 20180427

Abstract (en)

[origin: WO2018198082A1] Two solenoid antennas (2, 3) with a ferrite core are placed mutually in parallel and outside the groundplan of the flat spiral antenna (1). Longitudinal axes (4) of the solenoid antennas (2, 3) are in parallel with the lateral sides of the flat spira antenna (1) and the distance between the longitudinal axes (4) of the solenoid antennas (2, 3) is 0,5 to 1,25 times the width of the flat spiral antenna (1) at most. The middle of the flat spira antenna (1) lies in a zone defined by the prolonged longitudinal axes (4) of the solenoid antennas (2, 3). The solenoid antennas (2, 3) are connected to the same output of the excitation element; preferably the solenoid antennas (2, 3) are identical. The flat spiral antenna (1) can be connected to the NFC chip (7) thorugh the low noise amplifier (6). The solenoid antennas (2, 3) can be on one side of the printed circuit board (5) and the flat spiral antenna (1) can be on the opposite side of the printed circuit board (5).

IPC 8 full level

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CPC (source: EP)

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DOCDB simple family (application)

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