

Title (en)

OFFSETTING SHIELDING AND ENHANCING COUPLING IN METALLIZED SMART CARDS

Title (de)

VERSCHIEBUNGSABSCHIRMUNG UND KOPPLUNGSVERSTÄRKUNG IN METALLISIERTEN CHIPKARTEN

Title (fr)

DÉCALAGE DE PROTECTION ET AMÉLIORATION DE COUPLAGE DE CARTES À PUCE MÉTALLISÉES

Publication

**EP 2807700 A1 20141203 (EN)**

Application

**EP 13704726 A 20130123**

Priority

- US 201261589434 P 20120123
- US 201261619951 P 20120404
- US 201261624384 P 20120415
- US 201261693262 P 20120825
- US 201213600140 A 20120830
- US 201261697825 P 20120907
- US 201261732414 P 20121203
- US 201261737746 P 20121215
- US 201213730811 A 20121228
- EP 2013051175 W 20130123

Abstract (en)

[origin: WO2013110625A1] A dual-interface smart card having a booster antenna (BA) with coupler coil (CC) in its card body (CB), and a metallized face plate (202, 302) having a window opening (220, 320) for the antenna module (AM). Performance may be improved by one or more of making the window opening substantially larger than the antenna module, providing perforations through the face plate, disposing ferrite material between the face plate and the booster antenna. Additionally, by one or more of modifying contact pads (CP) on the antenna module (AM), disposing a compensating loop (CL) under the booster antenna, offsetting the antenna module with respect to the coupler coil, arranging the booster antenna as a quasi-dipole, providing the module antenna (MA) with capacitive stubs, and disposing a ferrite element (FE) in the antenna module between the module antenna and the contact pads.

IPC 8 full level

**H01Q 1/52** (2006.01); **H01Q 1/22** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2013110625A1

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DOCDB simple family (publication)

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