

Title (en)

CONTACTLESS METAL CARDS WITH FINGERPRINT SENSOR AND DISPLAY

Title (de)

KONTAKTLOSE METALLKARTEN MIT FINGERABDRUCKSENSOR UND ANZEIGE

Title (fr)

CARTES MÉTALLIQUES SANS CONTACT À CAPTEUR D'EMPREINTE DIGITALE ET UNITÉ D'AFFICHAGE

Publication

**EP 4028855 A2 20220720 (EN)**

Application

**EP 20851545 A 20200815**

Priority

- US 201962886978 P 20190815
- US 201962891433 P 20190826
- US 201962912701 P 20191009
- US 201962936519 P 20191117
- US 202062978826 P 20200220
- US 202063035670 P 20200605
- US 2020046565 W 20200815

Abstract (en)

[origin: WO2021030782A2] Smartcards (SC) having a metal layer (ML) or metal card body (MCB) and a module opening (MO) for a transponder chip module (TCM). A slit (S) or notch (N) in the metal card body may extend from a peripheral edge of a metal layer or card body, without extending to the module opening. A flexible circuit (FC) with one or two patch antennae (PA) or sense coils (SeC) connected to a coupling loop structure (CLS) with an antenna structure (AS) on the same substrate may be incorporated into the card body (CB). A fingerprint sensing module comprising an electrically-conductive metal bezel housed in the card may be electrically isolated from the metal layer or metal card body by the application of coatings (DLC) or anodizing (oxidizing) the respective metal surfaces. The cards may be contactless only, contact only, or dual-interface (contact and contactless).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2021030782A2

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