

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

G06F 1/16 (2006.01); **G06K 7/00** (2006.01)

CPC (source: EP)

G06K 19/0718 (2013.01); **G06K 19/0723** (2013.01); **G06K 19/07743** (2013.01); **G06K 19/02** (2013.01)

Citation (search report)

See references of WO 2021030782A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2021030782 A2 20210218; **WO 2021030782 A3 20210527**; EP 4028855 A2 20220720

DOCDB simple family (application)

US 2020046565 W 20200815; EP 20851545 A 20200815