

Title (en)

CRUM chip and image forming device for authentication and communication, and methods thereof

Title (de)

CRUM-Chip und Bilderzeugungsvorrichtung zur Authentifizierung und Kommunikation und Verfahren dafür

Title (fr)

Puce CRUM et dispositif de formation d'image pour l'authentification et la communication et procédés associés

Publication

**EP 2746859 B1 20190123 (EN)**

Application

**EP 13177300 A 20130719**

Priority

- KR 20120152433 A 20121224
- KR 20130048712 A 20130430

Abstract (en)

[origin: EP2746859A2] A Customer Replaceable Unit Monitoring (CRUM) chip (210), an image forming apparatus, and a method of authenticating are provided. The apparatus includes a main body (100) that includes a main controller (110) controlling operations of the apparatus, a consumable unit (200) mounted on the main body to communicate with the main controller, and a CRUM chip that is provided in the consumable unit and stores information regarding the consumable unit. The main controller and the CRUM chip transmit and receive signals that include data and integrity detection data between each other. The integrity detection data is generated by accumulating and examining integrity detection data included in a previous signal.

IPC 8 full level

**G03G 15/08** (2006.01); **G03G 21/18** (2006.01)

CPC (source: EP)

**G03G 15/0863** (2013.01); **G03G 21/1892** (2013.01)

Cited by

US2022317613A1

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

DOCDB simple family (publication)

**EP 2746859 A2 20140625**; **EP 2746859 A3 20150603**; **EP 2746859 B1 20190123**; EP 3477400 A1 20190501; EP 3477400 B1 20200909; PL 2746859 T3 20190531; PL 3477400 T3 20210111; WO 2014104511 A1 20140703

DOCDB simple family (application)

**EP 13177300 A 20130719**; EP 18209483 A 20130719; KR 2013006430 W 20130718; PL 13177300 T 20130719; PL 18209483 T 20130719