

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

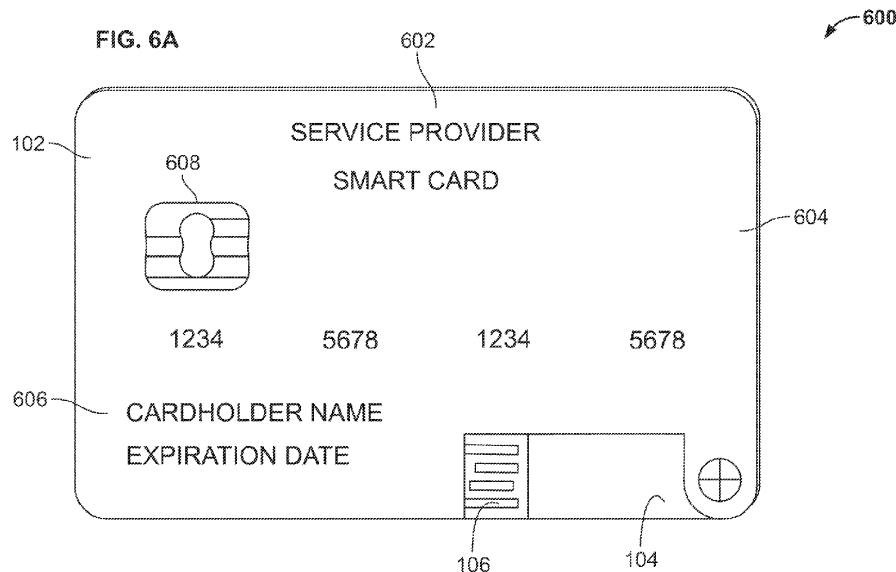
(43) International Publication Date
29 December 2022 (29.12.2022)



(10) International Publication Number
WO 2022/272038 A1

- (51) **International Patent Classification:**
G06F 21/44 (2013.01) *H04W 12/069* (2021.01)
G06F 21/78 (2013.01)
- (21) **International Application Number:**
PCT/US2022/034863
- (22) **International Filing Date:**
24 June 2022 (24.06.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
17/358,473 25 June 2021 (25.06.2021) US
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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,

(54) **Title:** CRYPTOGRAPHIC AUTHENTICATION TO CONTROL ACCESS TO STORAGE DEVICES



(57) **Abstract:** Systems, methods, apparatuses, and computer-readable media for cryptographic authentication to control access to storage devices. An applet executing on a processor of a contactless card may receive, via a wireless communications interface of the contactless card, a request to access a storage device of the contactless card, where the storage device is in a locked state. The applet may generate a cryptogram based on the request and transmit the cryptogram to a computing device via the wireless communications interface. The applet may receive, from the computing device, an indication specifying that a server decrypted the cryptogram. The applet may transmit, to a controller of the storage device and based on the indication specifying that the server decrypted the cryptogram, an indication specifying to unlock the storage device. The controller may transition the storage device from the locked state to an unlocked state based on the indication received from the applet.

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NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*