



- (51) **International Patent Classification:**  
*G06F 21/00* (2013.01)
- (21) **International Application Number:**  
PCT/US2013/042256
- (22) **International Filing Date:**  
22 May 2013 (22.05.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**

61/650,252	22 May 2012 (22.05.2012)	US
61/650,640	23 May 2012 (23.05.2012)	US
13/899,289	21 May 2013 (21.05.2013)	US
- (71) **Applicant:** PARTNET, INC. [US/US]; 615 Arapeen Drive, Suite 204, Salt Lake City, Utah 84108 (US).
- (72) **Inventors:** ERICKSON, Douglas M.; 615 Arapeen Drive, Suite 204, Salt Lake City, Utah 84108 (US). MORRIS, Cameron Craig; 615 Arapeen Drive, Suite 204, Salt Lake City, Utah 84108 (US).
- (74) **Agent:** AUSTIN, Wesley L.; Austin Rapp & Hardman, 170 South Main Street, Suite 735, Salt Lake City, Utah 84101 (US).
- (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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,

KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

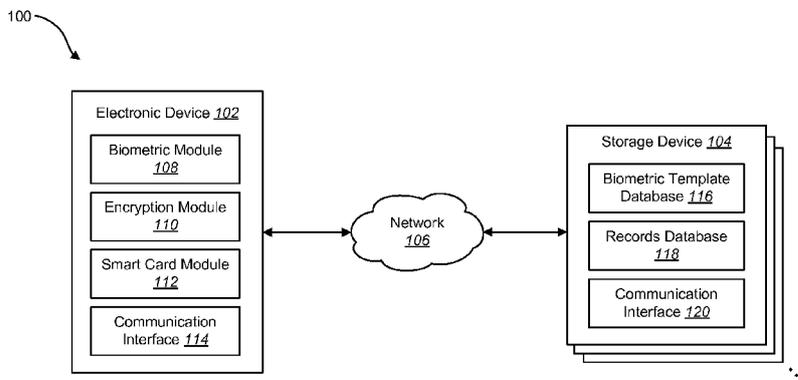
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

**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))*

(88) **Date of publication of the international search report:**  
6 March 2014

(54) **Title:** ENCRYPTING AND STORING BIOMETRIC INFORMATION ON A STORAGE DEVICE



**FIG. 1**

(57) **Abstract:** A method for encrypting biometric information by an electronic device is described. The method includes obtaining biometric data. The method also includes generating a biometric template based on the biometric data. The method also includes encrypting the biometric template. The method also includes sending the encrypted biometric template to a storage device.

WO 2013/177297 A3

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US13/42256

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 21/00 (2013.01)

USPC - 713/186

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) Classification(s): G06F 21/00, 7/04; H04L 9/32 (2013.01)

USPC Classification(s): 713/186, 185, 172; 726/9

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); ProQuest; IEEE/IEEEXplore; Google/Google Scholar; IP.com; Search Terms Used: smart card, ic card, chip card, fob, encrypt, biometric, private, public, key, health, medical, patient

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	EP 2 192 513 A1 (ADAMS, N et al.) 02 June 2010; Abstract, paragraphs [0004], [0008], [0017], [0033], [0050], [0064], [0080].	1, 2, 4, 5, 11-13, 17-20 ----- 3, 6-10, 14-16
Y	US 2009/0024416 A1 (MCLAUGHLIN, M et al.) January 22, 2009; paragraphs [0022], [0024], [0028], [0029], [0033], [0034], [0037], [0043].	3, 6, 10
Y	US 2002/0186838 A1 (BRANDYS, P) December 12, 2002; paragraphs [0019], [0021], [0022], [0028], [0029].	7-9, 14-16
A	US 2007/0106911 A1 (MISHRA, C., et al.) May 10, 2007; the entire document.	1-20
A	EP 1 693 774 A2 (OGATA, H et al.) 23 August 2006; the entire document.	1-20
A	EP 1 742 450 A3 (IMURA, S) 02 September 2009; the entire document.	1-20

 Further documents are listed in the continuation of Box C.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

18 December 2013 (18.12.2013)

Date of mailing of the international search report

03 JAN 2014

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Shane Thomas

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774