

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 July 2003 (03.07.2003)

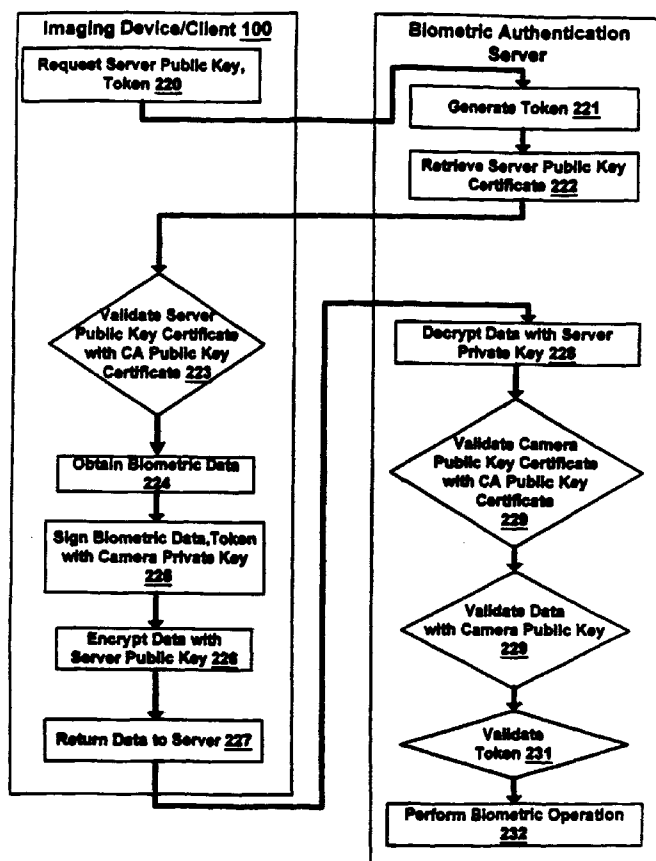
PCT

(10) International Publication Number
WO 03/053123 A2

- (51) International Patent Classification: Not classified
- (21) International Application Number: PCT/US02/33722
- (22) International Filing Date: 21 October 2002 (21.10.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/020,791 30 October 2001 (30.10.2001) US
- (71) Applicant (for all designated States except US): IRID-
IAN TECHNOLOGIES, INC. [US/US]; 121 Whittendale
Drive, Moorestown, NJ 08057 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): GLASS, Randal, W.
[US/US]; 108 Highgate Lane, Cherry Hill, NJ 08003 (US).
- (74) Agents: DONOHUE, John, P., Jr. et al.; Woodcok Wash-
burn LLP, 46th Floor, One Liberty Place, Philadelphia, PA
19103 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR SECURELY TRANSMITTING AND AUTHENTICATING BIOMETRIC DATA OVER A NETWORK



(57) Abstract: A method and apparatus for collecting and securely transmitting biometric data over a network contains a sensor, preferably a camera, for collecting biometric data and code generating hardware and software. The camera data is digitized and a unique code which is a function of the digitized camera data, a secret key and a transaction token is attached to the digital file. The code may identify the sensor which acquired the biometric information, a time at which the biometric information was acquired, or a time interval during which the data is considered to be valid, and a unique transaction code. The data and code are transmitted over a network to a server which authenticates that the data has not been altered by recomputing the code using its own knowledge of the secret key and transaction token needed to generate the code. If the data is authentic the server then computes a biometric template using the data. This biometric template is then compared to a previously defined biometric template to identify the user and give the user access to a secured resource. Components to generate the biometric template may be included in the imaging device. A mutual authentication system may verify that both the server and the client are authentic. The system can be used for online banking and Internet commerce transactions.



Published:

— without international search report and to be republished upon receipt of that report

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