

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/013187 A1

(51) International Patent Classification⁷: **G06K 9/36**, 9/46, G06T 9/00

(21) International Application Number:
PCT/SG2004/000235

(22) International Filing Date: 2 August 2004 (02.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PI 2003 2932 1 August 2003 (01.08.2003) MY

(71) Applicants (for all designated States except US): **MULTIMEDIA GLORY SDN. BHD.** [MY/MY]; 144, 1st Floor, Jalan Tun Sambanathan, Brickfields, Kuala Lumpur 50470 (MY). **MULTIMEDIA GLORY (S) PTE LTD** [SG/SG]; 135 Middle Road, #05-12 Bylands Building, Singapore 188975 (SG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **KARTHIK, K.** [IN/MY]; No. 19, Jalan USJ 2/6B, Subang Jaya, Selangor (MY).

(74) Agent: **RIZWI, Wun**; Khattar, Wong & Partners, 80 Rafles Place, #25-01 UOB Plaza 1, Singapore 048624 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

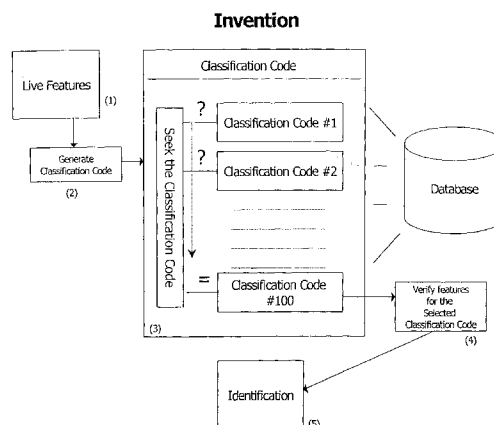
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, 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)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,

[Continued on next page]

(54) Title: METHOD OF IDENTIFYING AN INDIVIDUAL USING BIOMETRICS



(57) Abstract: A method of identifying an individual using biometric data is disclosed comprises of a sequence of steps. First the biometric data of the individual is enrolled (1), said biometric data selected from one or more of the following; fingerprint, palm print, iris or any other biometric data. The anchor features and other identifiable significant features are identified. The anchor features consist of: center point in fingerprints or palm prints, optic discs in retina image or lens section in Iris image. The other identifiable significant features include: ridge join points, ridge line endings for finger prints or palm prints or macula and vessel density in retina, and lens and iris portion in iris image. The relativity of each significant feature in relation to the other feature is computed. The relativity includes distance or direction or both. The relativity is combined to obtain a classification code (2). The classification code and the biometric data obtained are encrypted. Then the encrypted data is stored. Some of the above steps are repeated in the process of capturing the biometric data of a person to be identified. The classification code is matched against the earlier stored classification code (3). The biometrics data is verified against the earlier stored biometrics data of the same individual (4).

WO 2005/013187 A1



JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, 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, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designation US
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.