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(54) **Title:** FACE RECOGNITION SYSTEM AND METHOD

(57) **Abstract:** A facial recognition system that captures a plurality two-dimensional images of a target face, creates a three-dimensional facial model from the plurality of two-dimensional images of a target face, moves the three-dimensional facial model to a predetermined pose orientation to result in a normalized three-dimensional facial model, extracts measurements from the normalized three-dimensional facial model, and compares the extracted measurements to other facial measurements stored in a data base. Measurement extraction can be enhanced by modifying the data format of the normalized three-dimensional facial model into range and color image data.



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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC: G06K 9/00( 2006.01),9/36( 2006.01)  USPC: 382/118,154,286 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) U.S. : 382/1 18,154,286  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)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6775397 (Hamalainen) 10 August 2004 (10.8.2004), fig 6	1-40
Y	U.S. 2002/01061 14 (Yan et al) 8 August 2002 (08/08/2002), fig. 2	1-40
Y	US 2006010473 (Brooksby et al) 29 June 2006 (29.06.2006), pages 1-5	9,10,28,29
Y	Gottumukkal, Rajkiran "An improved face recognition technique based on modular PCA approach" Pattern Recognition letters, 2004, fig. 1	20,40
X	US 20030123713 (Geng) 3 July 2003 (03.06.2003), pages 1-10	1,21
Y	US 6381346 (Erasian) 30 April 2002 (30.04.2002) col. 4 lines 43-57	12,3 1,
Y	US 6885761 (Kage) 26 April 2005 (26.04.2005) col. 1, lines 50-55	14,33
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Name and mailing address of the ISA/US Mai! Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 223 13- 1450 Facsimile No. (571) 273-3201	Authorized officer Bhavesh Mehta Telephone No. (571)272-8535	