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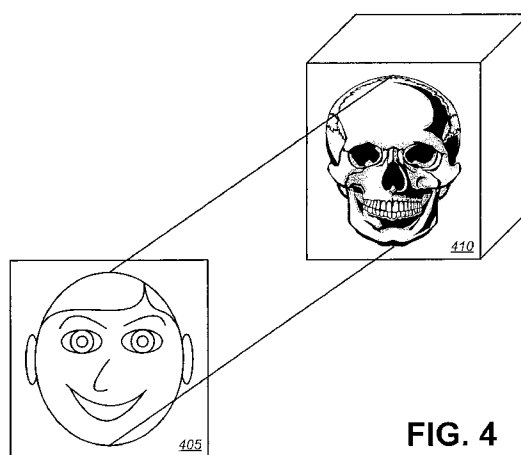
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(54) Title: MATCHING COLOR TEXTURED EXTERNAL SURFACE ON VOLUMETRIC IMAGE



**FIG. 4**

(57) **Abstract:** Systems and methods for generating combined image data representing a volumetric image of a subject and a color textured external surface of the subject. Volumetric image data (voxel data) (410) is obtained from the volumetric scanner, which contains the internal and external structure of the subject. Photographic, two-dimensional image data (405) holds the subject's external color and texture and can represent, for example, the patient's frontal face shot. The two-dimensional image data (405) can be used to provide a color textured external surface data to the volumetric data (410) to produce a display image data having both the volumetric data and the external color textured surface data.



WO 2007/134129 A3

# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC: G06K 9/36( 2006.01);G06T 15/00( 2006.01),17/00( 2006.01);G09G 5/00( 2006.01)

USPC: 345/419,420,582,629,630;382/285

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. : 345/419,420,582,629,630;382/285

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)

IEEE, ACM Databases

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,081,739 (Lemchen) 27 June 2000 (27.06.2000), Columns 4-10	1-36
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Y		1-36
Y	Pullan, A. J.; Bradley, C. P.; Hunter, P. J.; "A High Order Coupled Finite Element/Boundary Element Torso Model; 1999; IEEE; Pages 309-312	8-10, 19-21, and 29-31
Y	US 6,879,323 (Takezawa et al.) 12 April 2005 (12.04.2005), Columns 1, 9, and 18	4-6, 15-17, and 25-27
Y	US 2003/0122823 (Howson) 3 July 2003 (03.07.2003), paragraphs 1, 2, and 55	33-36
Y	US 2006/0031372 (Krishnan et al.) 9 February 2006 (09.02.2006) paragraph 55	34-36

☐ Further documents are listed in the continuation of Box C.

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