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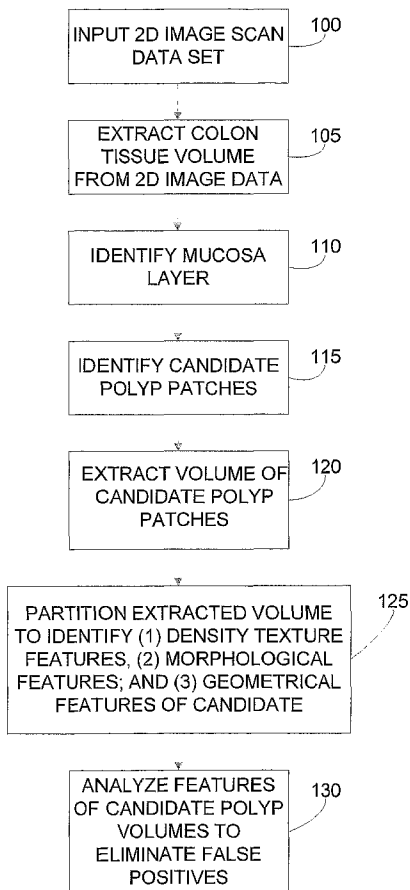
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[Continued on next page]

(54) Title: REDUCING FALSE POSITIVES OF POLYP IN CAD



(57) Abstract: A computer aided detection (CAJD) method for detecting polyps within an identified mucosa layer of a virtual representation of a colon includes the steps of identifying candidate polyp patches in the surface of the mucosa layer and extracting the volume of each of the candidate polyp patches (115). The extracted volume of the candidate polyp patches can be partitioned to extract a plurality of features, of the candidate polyp patch, which includes at least one internal feature of the candidate polyp patch (125). The features can include density texture features, geometrical features, and morphological features of the polyp candidate volume. The extracted features of the polyp candidates are analyzed to eliminate false positives from the candidate polyp patches (130). Those candidates which are not eliminated are identified as polyps.

WO 2007/064981 A3



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **G06K 9/00,9/46,9/62;A61B 1/06,5/05**

USPC: 382/128,190,224,159;600/160,425
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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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)
 EAST (USPAT, US-PUPUB, EPO, JPO, DERWENT, IBM_TDB, USOCR, FPRS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- A	US 2005/0152588 A1 (YOSHIDA et al) 14 July 2005 (14.07.2005), see citations in form 237 please.	1-10, 13-23, 26 ----- 11-12, 24-25
A	US 2005/0152591 A1 (KIRALY et al) 14 July 2005 (14.07.2005) whole document	1-26
A	US 2005/0245803 A1 (GLENN JR. et al) 03 November 2005 (03.11.2005) whole document	1-26

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See patent family annex.

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