**Title:** KNOWLEDGE-BASED IMAGING CAD SYSTEM

**Abstract:** A system for knowledge-based image computer aided detection includes a text interpretation system (105) receiving an electronic patient record (101) and outputting an annotation relevant for the electronic patient record (106), an annotation/detection system (107) detects anatomical and functional structures in input images and interacts with the text interpretation system (105) to receive the assertion and outputting annotated images based on the input images (109), and an imaging decision support system (110) taking the annotated images (109) and outputting classifications of annotated structures in the annotated images (111).
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

INV. G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. DOCUMENTS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>A</td>
<td>WO 03/034274 A (00N YEONG KUANG [AU]) 24 April 2003 (2003-04-24) page 3, line 1 - page 49, line 17</td>
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</table>

Further documents are listed in the continuation of Box C

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

K document member of the same patent family

Date of the actual completion of the international search

17 March 2008

Date of mailing of the international search report

27/03/2008

Name and mailing address of the ISA/

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<th>Publication date</th>
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<td>US 2005043968 Al 24-02-2005</td>
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