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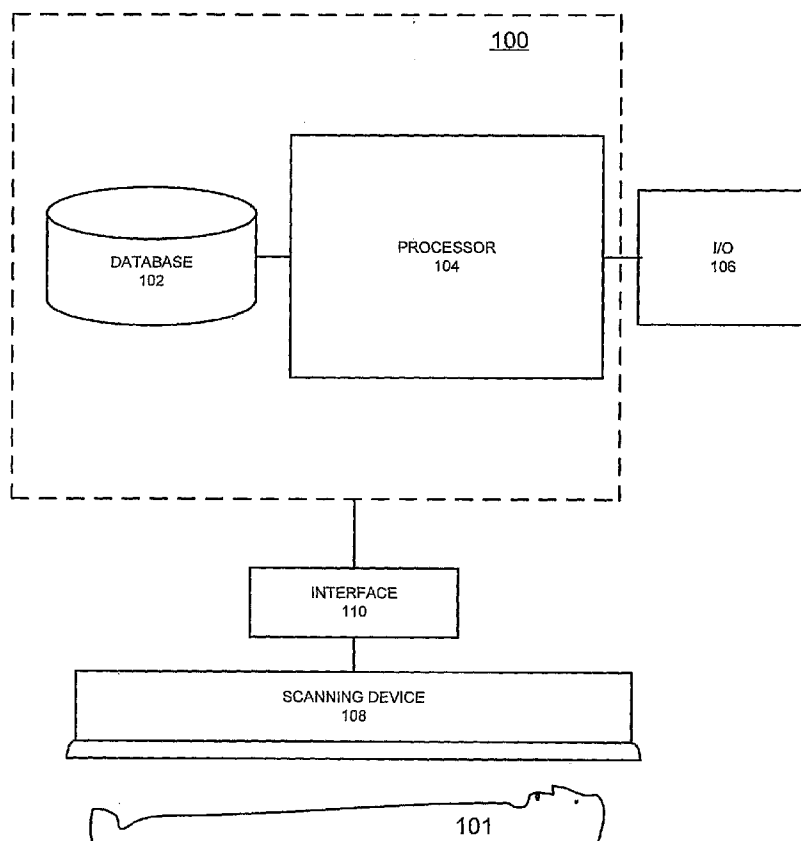
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[Continued on next page]

(54) Title: **SYSTEMS AND METHODS FOR PLANNING MEDICAL PROCEDURES AND DESIGNING MEDICAL DEVICES BASED ON ANATOMICAL SCAN DEFORMATIONS**



(57) Abstract: A method of formulating a patient-specific plan for a diagnostic or therapeutic procedure performed upon a patient is provided. The method includes obtaining a standard plan based upon a scan of an anatomy of a standard anatomic specimen, the scan defining a standard scan. The method also includes scanning the patient to obtain a patient-specific scan of an anatomy of the patient. Additionally, the method includes morphing the standard scan to the anatomy of the patient by mapping the standard scan to the patient-specific scan. The method further includes determining the patient-specific plan by modifying the standard plan based upon the mapping.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/05633

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G06Q 10/00**( 2006.01)

USPC: 705/2

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. : 705/2

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)  
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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                     | Relevant to claim No. |
|------------|--|-----------------------|
| X          | US 2001/0021806 A1 (GUEZIEC et al) 13 September 2001 (13.09.2001), abstract, para. [0020], [0051], [0093], and [0094]. | 1-21                  |
| A          | 4,977,505 (PELIZZARI et al) 11 December 1990 (11.12.1990), col. 2, line 62 - col. 3, line 10.                          | 1-21                  |
| A          | US 5,961,454 A (KOOY et al) 5 October 1999 (05.10.1999), col. 2, line 19 - col. 5, line 18.                            | 1-21                  |
| A          | US 6,006,126 A (COSMAN) 21 December 1999 (21.12.1999), col. 1, line 18 - col. 2, line 43.                              | 1-21                  |

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

☐ See patent family annex.

| * Special categories of cited documents:  |  |
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Date of the actual completion of the international search

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Continuation of B. FIELDS SEARCHED Item 3:  
East (USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM\_TDB)  
search terms: scan, CT, MRI, plan, morphing, transformation.