Abstract: An apparatus for breast scanning comprises a patient support for a patient to rest in a prone position, the support having an opening with one of her breasts vertically pendent through the opening for scanning; and a laser CT scanner disposed below the support for generating data for reconstruction of images of the breast. The laser CT scanner includes a laser beam for impinging on the breast. The laser beam is orbitable around the breast. The laser CT scanner includes a plurality of detectors positioned in an arc around the breast to simultaneously detect light transmitted through the breast. The measured signal level at the detectors is maintained to an acceptable level while controlling the temperature rise on the breast surface during scanning.
(88) Date of publication of the international search report:
7 May 2009
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC:
A61B 6/00 (2006.01); A61B 5/05 (2006.01); A61B 6/04 (2006.01)
G02B 26/08 (2006.01)

USPC:
600/407, 473, 476, 310; 378/37; 359/216, 217, 217, 223, 226

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)

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

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>Y</td>
<td>US 6,195,580 B1 (Grable) 27 Feb 2001 (27.02.2001), col 3 line 50 - col 16 line 55.</td>
<td>1, 2</td>
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Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

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"Y" 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

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Date of the actual completion of the international search: 04 February 2008 (04.02.2008)

Date of mailing of the international search report: 05 March 2008

Authorized officer: Brian L. Casler
Telephone No.: (571) 272-3250

Form PCT/ISA/210 (second sheet) (April 2007)
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