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(54) Title: BREAST BIOPSY AND NEEDLE LOCALIZATION USING TOMOSYNTHESIS SYSTEMS

(57) Abstract: Methods, devices, apparatuses and systems are disclosed for performing mammography, such as utilizing tomosynthesis in combination with breast biopsy.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 07/04006

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 5/05 (2007.01)

USPC - 600/410

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)
USPC: 600/410

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: all classes (text search--see keywords below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB, USPT, EPAB, JPAB), Google Scholar, Google
Tomosynthesis, needle biopsy, calcification detector, radiopaque, radiolucent, collection chamber

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/0038681 A1 (STANTON et al.) 08 November 2001 (08.11.2001) para [0033], [0035]-[0041], [0048], [0050], [0059], [0094]; claim 1, 13; Fig 1	1-31
Y	US 2004/0171986 A1 (TREMAGLIO et al.) 02 September 2004 (02.09.2004) para [0022], [0108], [0109], [0143], [0157]	4-8, 16 22-24, and 26
Y	US 2003/0018272 A1 (TREADO et al.) 23 January 2003 (23.01.2003) para [0050], [0052], [0056]-[0060], [0065], [0072], [0075]	14, 15 and 32
Y	US 5,769,086 A (RITCHART et al.) 23 June 1998 (23.06.1998) col 5, ln 7-8; col 6, ln 10-17; col 6, ln 64 to col 7 ln 23; col 7, ln 32-40; col 8, ln 25-29	1-32
Y	US 2005/0113681 A1 (DEFREITAS et al.) 26 May 2005 (26.05.2005) para [0020]	3, 23 and 24
Y	US 4,821,727 A (LEVENE et al.) 18 April 1989 (18.04.1989) col 8, ln 61 to col 9, ln 10	2, 10, 20, 21 and 25-26
Y	Filtered Back Projection, (NYGREN) published 08 May 1997 (08.05.1997) Retrieved on 15 Aug 2007 15.08.2007 Retrieved from the internet < URL: http://web.archive.org/web/19991010131715/http://www.owl.net.rice.edu/~elec539/Projects/97/cult/node2.html > Entire document especially First paragraph	18

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

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"O" document referring to an oral disclosure, use, exhibition or other means

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

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"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

"&" document member of the same patent family

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