Title (en)

METHOD AND APPARATUS FOR VOLUMETRIC IMAGE NAVIGATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR NAVIGATION MITTELS DREIDIMENSIONALER BILDERZEUGUNG

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE GENERER DES IMAGES TRIDIMENSIONNELLES A DES FINS DE "NAVIGATION"

Publication

EP 0999785 A4 20070425 (EN)

Application

EP 98931672 A 19980626

Priority

- US 9813391 W 19980626
- US 88428997 A 19970627

Abstract (en)

[origin: WO9900052A1] A surgical navigation system has a computer (101) with a memory (202) and a display (102) connected to a surgical instrument or pointer (109) and a position tracking system (105, 110, 111), so that the location and orientation of the pointer (109) are tracked in real time, and conveyed to the computer (101). The computer memory (202) is loaded with data from an MRI, CT, or other volumetric scan of a patient, and this data is utilized to dynamically display 3-dimensional perspective images in real time of the patient's anatomy from the viewpoint of the pointer (109).

IPC 1-7

A61B 5/00

IPC 8 full level

A61B 5/00 (2006.01); **A61B 1/00** (2006.01); **A61B 5/055** (2006.01); **A61B 5/06** (2006.01); **A61B 6/03** (2006.01); **A61B 8/00** (2006.01); **A61B 19/00** (2006.01)

CPC (source: EP)

A61B 5/06 (2013.01); **A61B 5/061** (2013.01); **A61B 34/20** (2016.02); **A61B 90/36** (2016.02); A61B 8/4245 (2013.01); A61B 34/10 (2016.02); A61B 2034/105 (2016.02); A61B 2034/2055 (2016.02); A61B 2034/2068 (2016.02); A61B 2034/2072 (2016.02); A61B 2090/364 (2016.02); A61B 2090/365 (2016.02); A61B 2090/367 (2016.02); A61B 2090/378 (2016.02)

Citation (search report)

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- [X] US 5261404 A 19931116 - MICK PETER R [US], et al
- [X] WO 9107726 A1 19910530 - I S G TECHNOLOGIES INC [CA]
- [A] US 4722056 A 19880126 - ROBERTS DAVID W [US], et al
- See references of WO 9900052A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

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