

Title (en)

APPARATUS AND METHODS FOR MEDICAL DIAGNOSTIC AND FOR MEDICAL GUIDED INTERVENTIONS AND THERAPY

Title (de)

GERÄT UND VERFAHREN ZUR MEDIZINISCHEN DIAGNOSE UND FÜR MEDIZINISCH GELEITETE EINGRIFFE UND THERAPIEN

Title (fr)

DISPOSITIF ET METHODES DE DIAGNOSTIC MEDICAL, D'INTERVENTIONS ET DE TRAITEMENT MEDICAL GUIDES

Publication

**EP 1196089 A2 20020417 (EN)**

Application

**EP 00914346 A 20000330**

Priority

- IL 0000202 W 20000330
- US 12726799 P 19990331

Abstract (en)

[origin: WO0057767A2] Systems and methods for medical diagnostic and for medical guided interventions using multiple imaging systems are introduced. These systems and methods recognize the need for a relatively simple and modular way of combining information available from two or more medical imaging apparatus in medical diagnosis and in image guided surgery and therapy. Particularly these methods enable to minimize mechanical constraints involved in a cooperative operation of several medical imaging devices. The apparatus and methods introduced in the present invention enable to measure the relative position between different medical imaging devices and between the image planes and/or image volumes produced by them by means of using a position measuring system based with attachable position measuring components. This facilitates image fusing when images of the same plane/volume are available from different medical imaging systems. Additionally/alternately it enables to position a second medical imaging device over a desired area/volume according to information received from the image produced by the first medical imaging device.

[origin: WO0057767A2] The apparatus, and methods introduced in the present invention are enabled to measure the relative position between different medical imaging devices (18)(152), between the image planes, and/or image volumes produced by them by means of using a position measuring system based with attachable position measuring components (28)(30). This facilitates image fusing when images of the same plane/volume are available from different medical imaging systems. Additionally/alternately it enables to position a second medical imaging device over a desired area/volume according to information received from the image produced by the first medical imaging device.

IPC 1-7

**A61B 8/00**

IPC 8 full level

**G01R 33/28** (2006.01); **A61B 1/00** (2006.01); **A61B 5/055** (2006.01); **A61B 6/00** (2006.01); **A61B 6/03** (2006.01); **A61B 8/00** (2006.01); **A61B 19/00** (2006.01); **G01S 7/52** (2006.01); **G01S 15/89** (2006.01)

CPC (source: EP)

**A61B 34/20** (2016.02); **A61B 90/36** (2016.02); **G01S 7/52017** (2013.01); **G01S 15/899** (2013.01); **A61B 34/25** (2016.02); **A61B 2034/107** (2016.02); **A61B 2034/2055** (2016.02); **A61B 2090/365** (2016.02); **A61B 2090/378** (2016.02)

Citation (search report)

See references of WO 0057767A2

Cited by

US9545242B2; US10278663B2; US9082178B2; US9468422B2; US9782151B2; US9955951B2; US10271822B2; US10561403B2

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)

**WO 0057767 A2 20001005**; **WO 0057767 A3 20010111**; AU 3573900 A 20001016; EP 1196089 A2 20020417; JP 2003527880 A 20030924

DOCDB simple family (application)

**IL 0000202 W 20000330**; AU 3573900 A 20000330; EP 00914346 A 20000330; JP 2000607528 A 20000330