Title (en)

DEVICE FOR LOCALIZING, INFLUENCING AND GUIDING TRACKING BODIES, AND METHOD FOR OPERATING A MARKING DEVICE

Title (de)

VORRICHTUNG ZUR LOKALISIERUNG, BEEINFLUSSUNG UND FÜHRUNG VON TRACKING-KÖRPERN SOWIE VERFAHREN ZUM BETRIEB EINER MARKIERUNGSEINRICHTUNG

Title (fr)

DISPOSITIF POUR LOCALISER DES CORPS DE REPERAGE, POUR INFLUER SUR CES CORPS ET POUR LES GUIDER, ET PROCEDE POUR FAIRE FONCTIONNER UN DISPOSITIF DE MARQUAGE

Publication

EP 1603456 A1 20051214 (DE)

Application

EP 04703175 A 20040119

Priority

- EP 2004000366 W 20040119
- DE 10308965 A 20030228
- DE 10318849 A 20030425

Abstract (en)

[origin: WO2004075749A1] The invention relates to a device for localizing tracking bodies (10), comprising at least one tracking body, which is placed inside a physiological structure, and a device, which is situated outside of the structure and which consists of sensor clusters (20) in a sensor cluster arrangement (55). The invention also relates to a method for localizing and influencing the tracking body. The tracking body is provided in the form of a body, which is distinguished with regard to a finite remanent magnetization and which has a variable magnetic dipole moment and an anisotropic magnetic dipole field resulting therefrom. The sensor clusters (20) are provided in the form of an aggregate of gradiometer sensors (30) with a specific measuring geometry. Optionally, physical/chemical properties and/or a trajectory of the tracking body can be altered in a specific manner by an externally acting magnetic field (H) and/or physiological processes in the surroundings of the at least one tracking body can be altered in a specific manner. In addition a fixed component (56) of the sensor cluster arrangement (55) can detect the position of a variable, in particular, displaceable component (57) of the sensor cluster arrangement (55), said component being assigned to an expanded imaging device (60), and the variable component of the sensor cluster arrangement can be used as a location marking in the expanded imaging device.

IPC 1-7

A61B 5/06; A61B 5/055; A61B 1/01

IPC 8 full level

A61B 5/06 (2006.01); **A61B 19/00** (2006.01)

CPC (source: EP US)

A61B 5/06 (2013.01 - EP US); **A61B 5/062** (2013.01 - EP US); **A61B 34/20** (2016.02 - EP US); A61B 90/361 (2016.02 - EP US); A61B 2034/107 (2016.02 - EP US); A61B 2034/2051 (2016.02 - EP US); A61B 2034/2072 (2016.02 - EP US); A61B 2090/3954 (2016.02 - EP US)

Citation (search report)

See references of WO 2004075749A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 2004075749 A1 20040910; CA 2517250 A1 20040910; EP 1603456 A1 20051214; JP 2006519041 A 20060824; US 2007015960 A1 20070118

DOCDB simple family (application)

EP 2004000366 W 20040119; CA 2517250 A 20040119; EP 04703175 A 20040119; JP 2006501558 A 20040119; US 54722906 A 20060620