

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  
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Application  
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• 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.

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