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TITLE

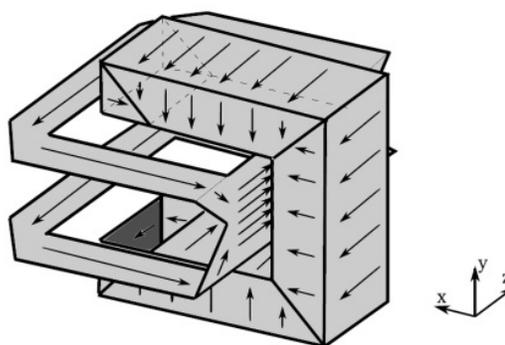
Open-Structure Magnetic Assembly For Magnetic Resonance Imaging

INVENTORS

Franco Bertora, Elisa Molinari, Andrea Viale, Giulio Sandini

DESCRIPTION

The invention is related to the generation of magnetic fields, particularly for magnetic resonance imaging (MRI). MRI requires a high strength and uniformity magnetic field over a range of interest and in the case of human subjects it is also necessary that the shape of the magnet be suitable for easy positioning of the subject under examination; the volume occupied by the subject has to be located in a region of homogeneous field, i.e. in a region where the magnetic field exhibits equal intensity and is unidirectional. The invention is able to produce an open structure magnetic assembly characterized by producing a homogeneous magnetic field in an easily accessible region. The principle is to obtain homogeneous magnetic fields by adding magnetic fields originating by different structures.



APPLICATIONS

Magnetic resonance scanner manufacturers, hospitals, research centers

KEYWORDS

Magnetic resonance imaging, magnetic field, open magnet

BIBLIOGRAPHIC DATA

1) Complesso magnetico aperto, particolarmente per la formazione di immagini per risonanza magnetica

Application Number	TO2009A000789
Priority Date	October 19, 2009
Applicants	Fondazione Istituto Italiano di Tecnologia

2) Open-Structure Magnetic Assembly For Magnetic Resonance Imaging

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Applicants	Fondazione Istituto Italiano di Tecnologia

CONTACTS

Technology Transfer Office	Lorenzo De Michieli	+39 010 71781 569
		lorenzo.demichieli@iit.it