

Title (en)

MAGNETIC RESONANCE SYSTEM WITH REDUCED NOISE

Title (de)

MAGNETRESONANZSYSTEM MIT REDUZIERTER LAUTSTÄRKE

Title (fr)

SYSTEME DE RESONANCE MAGNETIQUE AVEC REDUCTION DU BRUIT

Publication

**EP 1815263 A1 20070808 (EN)**

Application

**EP 05793839 A 20051014**

Priority

- IB 2005053387 W 20051014
- EP 04105824 A 20041117
- EP 05793839 A 20051014

Abstract (en)

[origin: WO2006054187A1] A magnetic resonance device includes a main magnet (2, 2a) generating a static magnetic field in an examination space (12) and supported on a floor by a support assembly (3). Gradient generation coil assembly (4) generates a magnetic field gradient in the examination space. Structures (8, 9, 30, 38) are provided for suppressing an effect of vibration generated by the gradient generation coil assembly at least at one of the main magnet and the examination space. A framework (8, 9) supports the gradient generation coil assembly and is connected to the support assembly or to the main magnet near the support assembly. Sound absorbing foam (30, 38) is vibrationally isolated from the gradient generating coil assembly to acoustically isolate the gradient generation coil assembly from the examination space. The gradient generation coil assembly is stiffened to suppress low frequency vibration of the gradient generation coil assembly.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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