Magnetic Resonance Compatible Electric Motor

Tech ID: 18714 / UC Case 2008-645-0

TECHNOLOGY DESCRIPTION

University of California, Irvine researchers have developed a high torque and novel electric motor that operates in high magnetic fields without degrading the quality of MR images. The motor may be constructed without paramagnetic materials.

BACKGROUND

Standard electrical motors when used in magnetic resonance (MR) instrumentation may interfere with the functionality of the MR imaging. These interferences from the motor distort the resulting MR images. Developing a motor that operates in high magnetic fields used in MR imaging and MR based intervention procedures without distorting the resulting images is desirable.

APPLICATIONS

This new motor may be manufactured for use in medical applications that require a high magnetic field. MR applications of this motor would result in improved signal to noise in the MR images.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	8,536,865	09/17/2013	2008-645

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OTHER INFORMATION

CATEGORIZED AS

- **Energy**
  - Other
- **Engineering**
  - Engineering
- **Imaging**
  - Medical
- **Medical**
  - Devices

RELATED CASES

2008-645-0

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