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WO 2014/129426 A1 WO 2013/104353 A1
CA 002717328 A1 US 20100189328 A1
US 20100137945 A1 US 20090266887 A1
US 20080281187 A1 US 20070057786 A1

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(54) Title of the Invention: **Operation of the magnet of a magnetic resonance imaging (MRI) system**
Abstract Title: **Operation of the magnet of a magnetic resonance imaging (MRI) system**

(57) Some implementations provide a method for safe operation of a magnetic resonance imaging (MRI) system, the method including: determining, at least in part by using a sensor device, location information that indicates a location of an MR- incompatible object relative to the MRI system, the MRI system generating a polarizing magnetic field for imaging a subject; based on the determined location information, determining, by a control unit associated with the MRI system, that the MR- incompatible object poses an operational hazard to the MRI system; and in response to determining that the MR- incompatible object poses an operational hazard to the MRI system, reducing, by the control unit, a strength of the polarizing magnetic field.

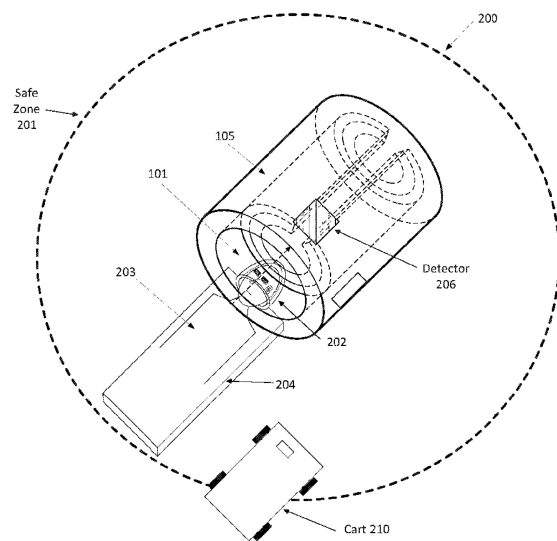


Figure 2