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(54) **MAGNETIC RESONANCE IMAGING APPARATUS AND SAR ESTIMATION METHOD**

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(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

In order to further improve the accuracy of SAR estimation by accurately estimating, for each object, the energy of RF pulses absorbed into a part of an object, for example, a head, on the basis of measurement performed before main imaging, a nuclear magnetic resonance imaging apparatus estimates a head SAR by calculating a signal S_h generated from the head and a signal S_b generated from the whole object, calculating the ratio α between the signal generated from the head and the signal generated from the whole object, and calculating the energy E_h absorbed into the head using the ratio of the signals.

6 Claims, 20 Drawing Sheets

