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(54) **SENSITIVITY DISTRIBUTION GENERATING APPARATUS, MAGNETIC RESONANCE SYSTEM, SENSITIVITY DISTRIBUTION GENERATING METHOD, AND PROGRAM**

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(58) **Field of Classification Search**
CPC ... G01R 33/48; G01R 33/246; G01R 33/4828
See application file for complete search history.

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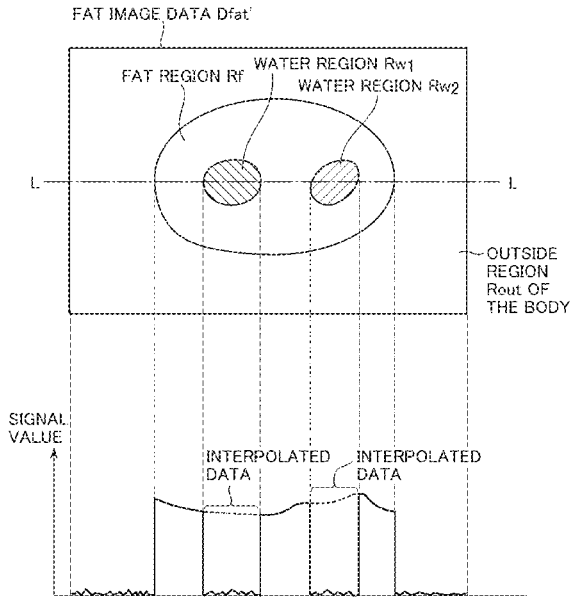
(57) **ABSTRACT**

A sensitivity distribution generating apparatus configured to generate sensitivity distribution data of a coil for receiving magnetic resonance signals from an imaging region including a first substance and a second substance different in resonant frequency is provided. The sensitivity distribution generating apparatus includes a reference image data generating unit configured to generate reference image data in which a region of the first substance is suppressed and a region of the second substance is emphasized, based on data obtained by executing a separation sequence for separating the first substance and the second substance from each other, and an estimating unit configured to estimate a sensitivity of the coil in the region of the first substance, based on a signal value of the region of the second substance in the reference image data.

8 Claims, 9 Drawing Sheets