Docket #: S07-004

MRI - A Fast Method for Designing Time-Optimal Gradient Waveforms for Arbitrary k-Space Trajectories

A method for magnetic resonance imaging (MRI) is provided. A scanning path is specified. Gradient amplitude is determined as a function of arc-length along the scanning path in k-space. A time optimal gradient waveform for scanning the scanning path is calculated from the gradient amplitude. The scanning path is scanned using the time optimal gradient waveform.

Applications

- optimized for each scan plane geometry, on the fly in real time applications.

Patents

- Published Application: 20090069664
- Issued: 7,791,338 (USA)

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