

**Docket #:** S00-206

# **MRI - Magnetic Resonance Imaging Using Spiral FISP with Moment Compensation**

Real-time imaging of a moving object such as the heart uses fast imaging with steady precession (FISP) traversing spirals in k-space. After flipping nuclear spins in the object within a slice to be imaged, signals are read out from the nuclear spins while applying read-out magnetic field gradients whereby read-out signals traverse spirals in k-space. Thereafter, the zero moment and first moment of the read-out gradients are driven to zero quickly so that fast imaging with steady state precession is realized without banding artifacts. Motion compensated rewinders are applied after the read-out magnetic field gradients which can be integral with the read-out gradients or comprise separate compensation lobes.

## **Patents**

- Published Application: [20030193337](#)
- Issued: [7,558,612 \(USA\)](#)

## **Innovators**

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