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

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