Docket #: S10-048

MRI - Contrast and Resolution Enhancement for Magnetization-Prepared MRI with Signal Compensation

A method for enhancing resolution and contrast in an MRI image is provided. A transient signal acquisition is applied to acquire a plurality of samples of data, comprising reducing transient signal oscillations and acquiring a plurality of MRI samples of data. Transient signal compensation is applied to the plurality of samples of data to provide data with signal compensation. A noise reduction technique is applied to the data with signal compensation. Data resulting from the applying the noise reduction is used to generate an MRI image.

Publications

- "Signal Comensation and Compressed Sensing for Magnetization-Prepared MR Angiography"; IEEE Transactions on Medical Imaging, Vol. 30, No. 5, May 2011

Patents

- Issued: 8,040,135 (USA)

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