

Docket #: S06-109

MRI - Fast Metabolic Imaging of Systems with Sparse Spectra

A method of imaging the individual components of systems with sparse spectra using magnetic resonance imaging including the steps of a) exciting nuclei of labeled components using a MRI pulse sequence, b) selecting a proper spectral window to avoid/minimize signal overlap of aliased frequency components. In step a) preferably a spiral chemical shift imaging (spCSI) sequence is employed. In a preferred embodiment, hyperpolarized nuclei of ^{13}C are used for labeling in a pyruvate substrate with metabolites of lactate, alanine, and bicarbonate.

Patents

- Published Application: [20080057587](#)
- Issued: [7,709,266 \(USA\)](#)

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