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 .sup.13C are used for labeling in a pyruvate substrate with metabolites of lacatate, alanine, and bicarbonate.

Patents

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Innovators

- Daniel Spielman
- Ralph Hurd
- Yakir Levin
- Dirk Mayer

Licensing Contact

Irit Gal

Senior Licensing Manager

Email