



Rf Coil Assembly And Method For Practicing Magnetization Transfer On Magnetic Resonance Imaging And

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The Invention

An RF coil assembly for an MRI system includes a resonator formed by a cylindrical shield and pairs of opposing conductive legs disposed symmetrically around a central axis and extending the axial length of the shield. One set of conductive leg pairs is tuned to operate at the Larmor frequency of ^{13}C and another set is tuned to operate at the Larmor frequency of ^1H . Drive circuitry operates the RF coil assembly to produce ^1H spin magnetization which is transferred to ^{13}C magnetization by the nuclear overhauser effect and to acquire MR data from the ^{13}C spins. Multinuclear measurements can be made simultaneously at different Larmor frequencies.

Additional Information

For More Information About the Inventors

- [Sean Fain](#)
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Tech Fields

- [Medical Imaging : MRI](#)

For current licensing status, please contact Jeanine Burmania at jeanine@warf.org or 608-960-9846