**Docket #:** S06-218

# MRI - Multi-resolution robust field map estimation for water and fat separation

A method for mapping field inhomogeneity for forming a magnetic resonance image is provided. A magnetic resonance excitation is applied. A plurality of k-space echoes signals is acquired. A periodic cost function is calculated from the acquired plurality of k-space echo signals. A period of the calculated periodic cost function is divided into multiple regions. A search algorithm is used to locate a local minimum in each region. Located local minimums are chosen to provide global smoothness.

## Applications

- Nnovel method that efficiently and robustly estimates field map of images acquired from multi-echo sequences.

## Patents

- Published Application: 20090174403
- Issued: 7,924,002 (USA)

## Innovators

- Wenmiao Lu

## Licensing Contact

## Irit Gal

Senior Licensing Manager

Email