

Cylindrical probe for ex-situ nuclear magnetic resonance spectroscopy (Technion)

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This invention is a new type of ex-situ nuclear magnetic resonance (NMR) probe with spectroscopic capability. NMR, and its descendant, magnetic resonance imaging (MRI) are among the most powerful and versatile analytic and diagnostic methods in science. Current devices suffer from the need to employ large magnets that surround the examined sample/object. The large magnet and the correspondingly large RF coils are a major factor in the complexity and the high cost of NMR and MRI systems. In addition, in many cases the sample cannot be placed inside the bore of the magnet or cannot be moved. The present invention describes a new type of ex-situ NMR probe, which through innovative design, achieves mobile NMR/MRI capability. The achievable spectral resolution is on the order of $\sim 0.5-1$ ppm.

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