

Title (en)

METHOD FOR CORRECTING THE INFLUENCE OF MAGNETIC FIELD CHANGES FOR MEASUREMENTS BY MEANS OF A MOBILE NMR SPECTROMETER

Title (de)

VERFAHREN ZUR KORREKTUR DES EINFLUSSES VON MAGNETFELDÄNDERUNGEN FÜR MESSUNGEN MIT EINEM MOBILEN NMR-SPEKTROMETER

Title (fr)

PROCÉDÉ DE CORRECTION DE L'INFLUENCE DE VARIATIONS DU CHAMP MAGNÉTIQUE POUR DES MESURES EFFECTUÉES AU MOYEN D'UN SPECTROMÈTRE RMN MOBILE

Publication

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Application

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Abstract (en)

[origin: WO2021083580A1] The invention relates to a method for operating a mobile NMR spectrometer (10), wherein, during an NMR spectroscopy measurement, a static magnetic field B0 is produced at a measurement specimen (30) by means of a magnetic device of the mobile NMR spectrometer (20) and, by means of a magnetic-field-sensitive detection device of the mobile NMR spectrometer (22), an excitation signal B1 is transmitted and at least one nuclear magnetic resonance signal is captured. According to the invention, an influence of location-dependent magnetic field changes and/or location-independent magnetic field changes occurring during the NMR spectroscopy measurement, in particular while the at least one nuclear magnetic resonance signal is being captured, on the at least one captured nuclear magnetic resonance signal is determined using sensor data from at least one sensor (26) and is prevented and/or compensated. The invention further relates to a mobile NMR spectrometer (10).

IPC 8 full level

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