Device for Non-Alcoholic Fatty Liver Disease Detection

TECHNOLOGY OFFER OF THE UNIVERSITY OF PÉCS

Keywords Soft-tomography, bioimpedancy, non-invasive measuring, non alcoholic liver disease prediction

Current stage of the development: it is developed a prototype in level TRL 5, a special data-processing algorithm, it is validated with clinical studies

BRIEF DESCRIPTION

The subject of the patented method is a data collection and data processing procedure. By this method, the internal structure of the inhomogeneous material structure can be electrically excited, which can be determined by the measured electrical space parameters. The sensors are located on the surface of the material. During the measurement combined with electrical excitation and multiple translucent frequencies, the resolution is increased and after processing the information density of the results is significantly increased.

The invention has a high potential for utilization, and the planned diagnostic instrument development also promises a large market.

Our research group developed a special prototype to use in liver examinations. The experiments are ongoing, we made comparative studies to certify the quality and accuracy of the measuring method. The possible outcomes of liver fat measuring device: a non-invasive method of liver fat, suitable for use with a clinical patient bed.

We are seeking for: licencing partners, collaborators, medical instrument manufacturers

IP status Patent given PCT/HU2016/050062; pending (USA, Canada, Japan)

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