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Submission Number: [REDACTED]  
 Application Number: [REDACTED]  
 Date of Receipt: 08 January 2014  
 Receiving Office: International Bureau of the World Intellectual Property Organization

**Title (EN) METHOD AND DEVICE FOR ESTIMATION OF THE ELASTIC PROPERTIES OF TISSUES, PARTICULARLY MUSCLE TISSUES**

**Abstract (EN) 23**  
**METHOD AND DEVICE FOR ESTIMATION OF THE ELASTIC PROPERTIES OF TISSUES, PARTICULARLY MUSCLE TISSUES**

**ABSTRACT**  
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 The invention relates to a method for estimation of elastic properties of tissues, particularly skeletal muscles, subjected to a mechanical stress, the method being characterized in comprising the following steps:  
 a) receiving one or more sequences of two-dimensional or three-dimensional echographic images of the tissue under investigation;10  
 b) transforming such sequence or sequences of images in sequences of measurements of deformations and/or strain rates in one or more spatial locations of the tissue;  
 c) acquiring from at least one sensor at least one signal indicative of the applied stress so as to obtain, through processing of said signal, 15 information on the entity of the stress;  
 d) calculating stiffness-related parameters as a function of the stress and the deformations and/or strain rates as measured;  
 e) outputting such stiffness-related parameters in numeric and/or

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