

Title (en)  
METHOD AND DEVICE FOR THE NON-DESTRUCTIVE DETERMINING OF LOCAL MECHANICAL PROPERTIES OF COMPONENTS MADE OF NON-HOMOGENEOUS MATERIALS.

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR ZERSTÖRUNGSFREIEN ERMITTLUNG LOKALER MECHANISCHER EIGENSCHAFTEN VON BAUTEILEN AUS INHOMOGENEN WERKSTOFFEN

Title (fr)  
PROCÉDÉ ET DISPOSITIF POUR LA DÉTERMINATION NON DESTRUCTIVE DES PROPRIÉTÉS MÉCANIQUES LOCALES DE PIÈCES COMPOSÉES DE MATÉRIAUX NON HOMOGÈNES

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Abstract (en)  
[origin: WO2020016317A1] The invention relates to a method and a device for the non-destructive determining of local mechanical properties of a component, preferably an elongated component made of non-homogeneous materials or a non-homogeneous material distribution, wherein the component is exposed to a mechanical loading which deforms the component and the deformation of the component is detected in a camera-based manner at a plurality of defined measuring points or measuring sections, and the local deformation of the component is determined from the camera data and the local mechanical property is calculated from the local deformation.

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