

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

Publication

**EP 3824283 A1 20210526 (DE)**

Application

**EP 19749227 A 20190717**

Priority

- DE 102018005635 A 20180717
- EP 2019069279 W 20190717

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.

IPC 8 full level

**G01N 33/46** (2006.01); **G01N 3/08** (2006.01); **G01N 3/20** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP)

**G01N 3/08** (2013.01); **G01N 3/20** (2013.01); **G01N 33/46** (2013.01); **G01N 2203/0003** (2013.01); **G01N 2203/0023** (2013.01); **G01N 2203/0216** (2013.01); **G01N 2203/0218** (2013.01); **G01N 2203/0252** (2013.01); **G01N 2203/0264** (2013.01)

Citation (search report)

See references of WO 2020016317A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2020016317 A1 20200123**; DE 102018005635 A1 20200123; EP 3824283 A1 20210526

DOCDB simple family (application)

**EP 2019069279 W 20190717**; DE 102018005635 A 20180717; EP 19749227 A 20190717