

Title (en)

MEASURING DEVICE FOR MEASURING DEFORMATIONS OF ELASTICALLY DEFORMABLE OBJECTS

Title (de)

MESSVORRICHTUNG ZUM MESSEN VON VERFORMUNGEN ELASTISCH VERFORMBARER OBJEKTE

Title (fr)

DISPOSITIF DE MESURE POUR MESURER DES DÉFORMATIONS D'OBJET POUVANT SUBIR UNE DÉFORMATION ÉLASTIQUE

Publication

**EP 2394136 A1 20111214 (DE)**

Application

**EP 10704096 A 20100205**

Priority

- EP 2010000738 W 20100205
- DE 102009007938 A 20090206

Abstract (en)

[origin: WO2010089139A1] The invention relates to a device for measuring deformations of an elastic, elongated carrier structure, comprising at least one optically detectable marking at a first longitudinal position along the elongated carrier structure, and at least one electronic camera having an objective and a matrix sensor. The objective of the camera is aligned toward the at least one optically detectable marking, such that the marking is depicted on the matrix sensor and the camera faces the marking in the longitudinal direction along the carrier structure. The image data of the camera are fed to an image processing device set up for determining the position of the marking within the image field by means of an image detection. A deviation of the position of the marking from at least one target value is determined and quantified by means of a calculating device.

IPC 8 full level

**G01B 11/16** (2006.01); **F03D 7/04** (2006.01)

CPC (source: EP)

**F03D 17/00** (2016.05); **G01B 11/16** (2013.01); **F05B 2260/80** (2013.01); **F05B 2270/8041** (2013.01); **Y02E 10/72** (2013.01)

Citation (search report)

See references of WO 2010089139A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010089139 A1 20100812**; DE 102009007938 A1 20100819; EP 2394136 A1 20111214

DOCDB simple family (application)

**EP 2010000738 W 20100205**; DE 102009007938 A 20090206; EP 10704096 A 20100205