

Title (en)

DEVICE FOR DETERMINING THE LOCAL MECHANICAL BEHAVIOUR OF A MATERIAL TEST PIECE

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DES LOKALEN MECHANISCHEN VERHALTENS EINES MATERIALPRÜFKÖRPERS

Title (fr)

DISPOSITIF DE DETERMINATION DU COMPORTEMENT MECANIQUE LOCAL D'UNE EPROUVETTE DE MATERIAU

Publication

**EP 2766709 A1 20140820 (FR)**

Application

**EP 12790589 A 20121012**

Priority

- FR 1159297 A 20111014
- FR 2012052333 W 20121012

Abstract (en)

[origin: WO2013054062A1] The invention relates to a device (11) for determining the local mechanical behaviour of a material test piece (18), comprising a so-called video-traction unit (10), comprising: - means (29) for mechanical loading of the test piece, - means (23) for video recording of the displacement of a plurality of point markers (46) disposed on the test piece (18), and - means (28) for interpolating the displacements recorded, able to provide the local deformation of the test piece in real time, - a Raman spectrometer (12) comprising means (36) of acquisition and means (40) for processing a Raman spectrum in a region for which the local deformation of the test piece is provided, and - means (42) of interaction between the video-traction unit (10) and the Raman spectrometer (12).

IPC 8 full level

**G01N 3/06** (2006.01); **G01N 3/08** (2006.01); **G01N 21/35** (2014.01)

CPC (source: EP)

**G01N 3/068** (2013.01); **G01N 3/08** (2013.01); **G01N 21/65** (2013.01); **G01N 2203/0641** (2013.01); **G01N 2203/0647** (2013.01)

Citation (search report)

See references of WO 2013054062A1

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

DOCDB simple family (publication)

**WO 2013054062 A1 20130418**; EP 2766709 A1 20140820; FR 2981452 A1 20130419; FR 2981452 B1 20131220

DOCDB simple family (application)

**FR 2012052333 W 20121012**; EP 12790589 A 20121012; FR 1159297 A 20111014