

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

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Application

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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

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