

Title (en)

METHOD AND DEVICE FOR TESTING A COMPONENT NON-DESTRUCTIVELY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ZERSTÖRUNGSFREIEN PRÜFUNG EINES BAUTEILS

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LE CONTRÔLE NON DESTRUCTIF D'UNE PIÈCE

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Application

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Abstract (en)

[origin: WO2019162003A1] The invention relates to a method for testing a component (1) non-destructively, particularly for internal defects (6, 7), comprising the following steps: a) a rotationally symmetrical component (1) having a plurality of preferably cylindrical recesses, which are arranged at one or more hole circles (3, 5) is provided, b) a transmitter probe (12) serving as an ultrasound transmitter and a receiver probe (13) serving as an ultrasound receiver are arranged spaced apart from each other outside the component (1) such that ultrasound waves can be irradiated into a shaded area (11) located behind one of the recesses (2) in the component (1) by means of the transmitter probe (12) and ultrasound waves which are diffracted at least at one defect (7) present in the shaded area (11) can be received by the receiver probe (13), and c) time of flight diffraction is used to determine whether one or more faults (7) are present in the shaded area (7). The invention also relates to an apparatus for carrying out such a method.

IPC 8 full level

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CPC (source: EP US)

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