

Title (en)

METHOD FOR THE NON-DESTRUCTIVE TESTING OF A WORKPIECE BY MEANS OF ULTRASOUND AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUR ZERSTÖRUNGSFREIEN PRÜFUNG EINES WERKSTÜCKES MITTELS ULTRASCHALL UND VORRICHTUNG DAFÜR

Title (fr)

PROCÉDÉ D'ESSAI NON DESTRUCTIF D'UNE PIÈCE DE FABRICATION AU MOYEN D'ULTRASON ET DISPOSITIF POUR CELUI-CI

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Application

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Abstract (en)

[origin: WO2015166003A1] The invention relates to a method for the non-destructive testing of a workpiece (100) by means of ultrasound, in which a series of i A-scans SN,...; SN+i of the volume of the workpiece (100) is recorded and buffered. Then, a time frame is set in which ultrasonic signals which could be correlated with a defect occur in at least one scan Sj with j out of [N, N+i]. By forming sections of the A-scans SN,...; SN+i that fall into the set time frame, and arranging them relative to one another in a sequence predefined by an algorithm, such as in the sequence in time or space of their respective recording, an image of the workpiece is generated to which an analysis algorithm from image processing is applied. The device according to the invention is configured for carrying out the method according to the invention and comprises the means necessary for this purpose.

IPC 8 full level

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