

Title (en)
METHOD AND DEVICE FOR ULTRASONIC TESTING

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ULTRASCHALLPRÜFUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF D'ESSAIS ULTRASONORES

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Abstract (en)
[origin: WO2011039339A1] The invention relates to a method for ultrasonically testing a test specimen (6), which comprises a bore (26) extending in an axial direction (L), wherein the probe (2) is disposed inside the bore (26) and extends in the axial direction (L). The probe (2) comprises a plurality of sensor rings (81-88) disposed behind one another in the axial direction (L) and spaced apart from each other, said sensor rings extending in a plane perpendicular to the axial direction (L) and comprising a plurality of ultrasonic transducers (10) spaced apart from each other. The ultrasonic transducers (10) are disposed in a segment (30) of a particular sensor ring (81-88), which extends in the circumferential direction of the particular sensor ring (81-88) on at least a partial section of a circumference of the particular sensor ring (81-88). For the ultrasonic testing of the test specimen (6), an ultrasonic test pulse originating from the ultrasonic transducers (10) of a segment (30) of a sensor ring (81-88) is coupled into the test specimen (6). Then a plurality of echo signals (20) are received with a first and a second ultrasonic transducer (10), wherein said transducers are disposed spatially apart from each other. The echo signals (20) are caused by reflection of the coupled-in ultrasonic test pulse from one and the same defect (16) present in the test specimen (6).

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