

Title (en)
ULTRASONIC PROBE COUPLANT MONITORING

Title (de)
ÜBERWACHUNG DES KOPPLUNGSMITTELS EINER ULTRASCHALLSONDE

Title (fr)
SURVEILLANCE D'AGENT COUPLANT DE SONDE ULTRASONORE

Publication
EP 4107521 A4 20240403 (EN)

Application
EP 21757664 A 20210211

Priority
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• US 2021017637 W 20210211

Abstract (en)
[origin: WO2021167835A1] Couplant monitoring ultrasonic testing system and methods for using the same are provided. A first ultrasonic signal can be generated by an ultrasonic probe and directed towards a target. A delay line can be acoustically coupled to the ultrasonic probe. The delay line and an ultrasonic coupling medium can be interposed between the ultrasonic probe and the target. A second ultrasonic signal can be received by the ultrasonic probe. The second ultrasonic signal can represent a portion of the first ultrasonic signal reflected from an interface between the delay line and the target in which the ultrasonic coupling medium is positioned. An amplitude of the second ultrasonic signal can be compared to a predetermined amplitude threshold by a controller to determine a condition of the ultrasonic coupling medium. A notification representing the condition of the ultrasonic coupling medium can be provided by the controller and based upon the comparison.

IPC 8 full level
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Citation (search report)
• [XY] US 2017276651 A1 20170928 - HALL LIAM [GB]
• [Y] US 2016139082 A1 20160519 - ROSS KEVIN VINCENT [GB], et al
• See also references of WO 2021167835A1

Designated contracting state (EPC)
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