

Title (en)

PIEZOELECTRIC TRANSDUCER FOR THE NON-DESTRUCTIVE TESTING OF A STRUCTURE COMPRISING A HOLE

Title (de)

PIEZOELEKTRISCHER WANDLER ZUR ZERSTÖRUNGSFREIEN PRÜFUNG EINER STRUKTUR, DIE EIN LOCH UMFASST

Title (fr)

TRANSDUCTEUR PIÉZOÉLECTRIQUE POUR LE CONTRÔLE NON-DESTRUCTIF D'UNE STRUCTURE COMPORTANT UN TROU

Publication

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Application

**EP 08843588 A 20081021**

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- FR 0758667 A 20071030

Abstract (en)

[origin: WO2009056472A1] A piezoelectric transducer (2), for the ultrasonic non-destructive testing of a structure comprising at least one hole, comprises at least one hole (220, 221) and is characterized in that it comprises a first dielectric layer (20) and a second dielectric layer (21), which said first layer and second layer being passed through by at least one hole (220, 221), and at least two elementary transducers (270, 271) located between said first layer and said second layer in the vicinity (230, 231) of at least one hole (220, 221), each elementary transducer (270, 271) essentially being formed by a piezoelectric active component (260a), by a primary electrode (240a - 247a) and by a secondary electrode (250a, 251a). Preferably, for each hole (220, 221), a single secondary electrode (250a, 251a) is shared by the at least two elementary transducers (270, 271). The invention also relates to a structure (7) and a part (8) made of a composite material integrating the piezoelectric transducer (2).

IPC 8 full level

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