

Title (en)
MULTIELEMENT SOUND PROBE COMPRISING A COMPOSITE ELECTRICALLY CONDUCTING COATING AND METHOD FOR MAKING SAME

Title (de)
SCHALWANDLER AUS MEHREREN ELEMENTEN MIT LEITFÄHIGER VERBUNDSCHICHT UND VERFAHREN ZUR HERSTELLUNG

Title (fr)
SONDE ACOUSTIQUE MULTIELEMENTS COMPRENANT UN FILM COMPOSITE CONDUCTEUR ET PROCEDE DE FABRICATION

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Application
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Abstract (en)
[origin: FR2779575A1] The invention concerns a multielement sound probe comprising a backing (1), an electrical circuit (2) with strip conductors (Pi1) connected to elementary piezoelectric transducers (Ti1). The probe further comprises, a composite material electrically conducting coating located between the piezoelectric transducers (Ti1k) and the strip conductors (Pi1). In standard fashion, the piezoelectric transducers are cut out into sub-elements to obtain elements acoustically uncoupled and electrically coupled. The presence of the composite material electrically conducting coating (3) enables the strip conductors to be dimensioned with respect to the sub-elements and constitutes an intermediate element relative to the thermal expansion variations between the backing (1) and the piezoelectric transducers.

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