

Title (en)
UNIDIRECTIONAL ACOUSTIC PROBE AND METHOD FOR MAKING SAME

Title (de)
AKUSTISCHER RICHTWANDLER UND HERSTELLUNGSVERFAHREN

Title (fr)
SONDE ACOUSTIQUE UNIDIRECTIONNELLE ET PROCEDE DE FABRICATION

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Application
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Abstract (en)
[origin: WO0168273A1] The invention concerns unidirectional acoustic probe, comprising an efficient interconnection array, and a method for making such a probe. Said unidirectional probe comprises linear piezoelectric transducers (TPI) at the surface of a dielectric film (CIS), said dielectric film including electrical means for connecting said piezoelectric transducers to a control device. The invention is characterised in that the connection means comprise primary connection pads (TPPCi), opposite the piezoelectric transducers; secondary connection pads (SPSCi), offset relative to the piezoelectric transducers, so that said transducers can be connected to the control device; strip conductors (PI) connecting the primary connection pads (TPPCi) to the secondary connection pads (SPSCi), said strip conductors (PI) being arranged along a direction Dx perpendicular to the direction Dy defined by the longitudinal axis of the piezoelectric transducers. The advantage of such a probe lies in the fact that during its configuration which consists in positioning the probe on a curved support absorbing the acoustic waves, the interconnection array defined is more robust than what is known in prior art.

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