

Title (en)

ULTRASONIC TRANSDUCER AND METHOD FOR MAKING SAME

Title (de)

ULTRASCHALLWANDLER UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

TRANSDUCTEUR ULTRASONORE ET PROCEDE DE FABRICATION D'UN TEL TRANSDUCTEUR

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Application

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Abstract (en)

[origin: WO9535642A1] An ultrasonic transducer (38) including a 0.1-0.5 μ m-thick silicon nitride membrane (4a) with an intrinsic mechanical stress of 100 MPa to 1.3 GPa, and a fixed electrode (15) made of a non-metallic rigid material and provided with a plurality of holes (25) with a small average diameter, said fixed electrode defining with said membrane an inner space 1-5 μ m thick. A method for making said ultrasonic transducer is also disclosed.

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