

Title (en)

SOUND TRANSDUCER, COMPRISING A PIEZOCERAMIC TRANSDUCER ELEMENT WHICH IS INTEGRATED IN A DIAPHRAGM THAT CAN VIBRATE

Title (de)

SCHALLWANDLER, MIT IN SCHWINGFÄHIGE MEMBRAN INTEGRIERTEM PIEZOKERAMISCHEM WANDLERELEMENT

Title (fr)

TRANSDUCTEUR ACOUSTIQUE COMPRENANT UN ÉLÉMENT TRANSDUCTEUR PIÉZOCÉRAMIQUE INTÉGRÉ DANS UNE MEMBRANE OSCILLANTE

Publication

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Application

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Abstract (en)

[origin: WO2018177945A1] The invention proposes a sound transducer, in particular for an ultrasound sensor. The sound transducer (1) has a functional group (2), wherein the functional group (2) comprises a diaphragm pot (6) and at least one electroacoustic transducer element (3). The sound transducer (1) also has a housing (5). The diaphragm pot (6) comprises a diaphragm (3) that can vibrate and a circumferential wall (7) and also at least one electroacoustic transducer element (3), wherein the transducer element (3) is designed to cause the diaphragm (8) to vibrate and/or to convert vibrations of the diaphragm (8) into electrical signals. The diaphragm pot (6) is formed from a plastics material, wherein, according to the invention, the at least one transducer element (3) is integrated into the diaphragm (8) that can vibrate, in particular without an additional adhesive layer, wherein the transducer element (3) is designed as a piezoceramic element.

IPC 8 full level

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