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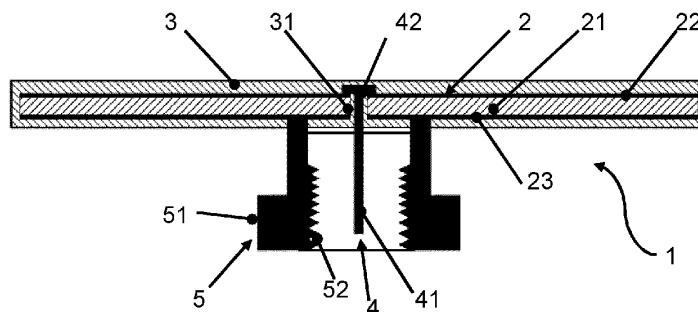


Fig. 1

(57) Abstract: The present document relates to an ultrasound transducer (1) configured for converting AC electric signals (400) into ultrasonic vibrations and for receiving ultrasonic vibrations and convert the ultrasonic vibrations into an AC electric signal. The ultrasound transducer comprises a piezoelectric layer (2). The piezoelectric layer in turn comprises a piezoelectric ply (21) of a piezoelectric material and two conductive plies (22, 23) of a conductive material, wherein one of the conductive plies (22, 23) is disposed on each of the two opposed faces of the piezoelectric ply (21). The piezoelectric layer is embedded in a non-conductive liquid-proof sheath (3). Each conductive ply (22, 23) disposed on one side of the piezoelectric ply (21) is electrically connected to a separate terminal (4, 5) which is accessible from outside the sheath.

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