

Title (en)
ELECTROACOUSTIC TRANSDUCER, IN PARTICULAR TRANSMITTING TRANSDUCER

Title (de)
ELEKTROAKUSTISCHER WANDLER, INSBESONDERE SENDEWANDLER

Title (fr)
TRANSDUCTEUR ÉLECTROACOUSTIQUE, EN PARTICULIER TRANSDUCTEUR D'ÉMISSION

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Application
EP 09740040 A 20090922

Priority
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Abstract (en)
[origin: WO2011035745A2] An electroacoustic transducer, in particular a transmitting transducer for sonar systems, is disclosed, comprising two end caps (11, 12) that are arranged at a fixed distance from each other, multiple bars (13) which are braced between the two end caps (11, 12) and the ends of which are attached to the end caps (11, 12) next to each other in the peripheral direction, and an elastic shell (16) that externally encloses the bars (13). In order to significantly reduce the weight of the transducer and simplify production, composite modules (17) are attached to the bars (13) so as to excite vibrations. Each composite module (17) has electrode structures that include spaced-apart electrodes and are arranged on at least two film layers made of insulating material, and spaced-apart piezoceramic fibers which are arranged between the film layers and are contacted by the electrodes on opposite longitudinal sides.

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