

Title (en)
ELECTRO-ACOUSTIC TRANSDUCER, RELATED ASSEMBLY AND SYSTEM

Title (de)
ELEKTROAKUSTISCHER WANDLER, ENTSPRECHENDE ANORDNUNG UND VORRICHTUNG

Title (fr)
TRANSDUCTEUR ÉLECTROACOUSTIQUE, ENSEMBLE ET SYSTÈME ASSOCIÉS

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Abstract (en)
[origin: WO2016066938A1] The present invention concerns an acoustic transducer capable of converting a sound signal into an electric signal. The transducer comprises a mobile element that is movable under the effect of the sound signal, a fixed element opposite the mobile element, a recess (4), and a dissipative element (3) interposed between the mobile element and the fixed element. The coupled system formed in this way has a natural frequency corresponding to a resonance frequency of the transducer at which the sensitivity of same is at a maximum. The mobile element, the fixed element, the dissipative element and the recess are configured such that the quality factor of the acoustic transducer is greater than two. The recess (4) has a straight prismatic or cylindrical or frustoconical general shape, the mobile element forming a first base of the prism, cylinder or frustum, the fixed element being disposed inside said prism, cylinder or frustum, over the second base of the prism, cylinder or frustum. Such a transducer also incorporates an analogue filtering function for filtering the signal around the natural frequency of same.

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