

Title (en)

MINIATURE ELECTRO-ACOUSTIC TRANSDUCER WITH INTEGRATED COUPLING COIL

Title (de)

ELEKTROAKUSTISCHER MINIATURWANDLER MIT INTEGRIERTER KOPPELSPULE

Title (fr)

TRANSDUCTEUR ÉLECTRO-ACOUSTIQUE MINIATURE DOTÉ D'UNE BOBINE DE COUPLAGE INTÉGRÉE

Publication

**EP 2041995 A1 20090401 (EN)**

Application

**EP 07730244 A 20070619**

Priority

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Abstract (en)

[origin: WO2008003583A1] The present invention relates to a miniature electro-acoustic transducer assembly comprising a magnet circuit comprising a permanent magnet assembly arranged to generate a magnetic flux in an air gap, a voice coil positioned at least partly in the air gap, the voice coil being operatively connected to a displaceable diaphragm, and a coupling coil formed by an electrically conducting path, the coupling coil being adapted to couple to a T-coil of an associated hearing aid by generating, in relation to the miniature electro-acoustic transducer, an external electro-magnetic field having a spatial extension overlapping said coil of the associated hearing aid, wherein diaphragm displacements are essentially unaffected by current flowing in the electrically conducting path forming the coupling coil.

IPC 8 full level

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