

Title (en)

Electroacoustic transducer for use under water and comprising a system for automatically compensating the hydrostatic pressure.

Title (de)

Elektroakustischer Wandler zur Verwendung unter Wasser mit einem System zur automatischen Kompensation des hydrostatischen Drucks.

Title (fr)

Transducteur électroacoustique destiné à être immergé et comportant un système de compensation automatique de la pression d'immersion.

Publication

EP 0473480 B1 19940413 (FR)

Application

EP 91402172 A 19910802

Priority

FR 9010249 A 19900810

Abstract (en)

[origin: EP0473480A1] The invention relates to "Tonpilz (acoustic mushroom)"-type transducers having pneumatic compensation for the effects due to hydrostatic pressure. It consists in providing reduced-size compensation chambers (106-213) so as to compensate only for the axial forces which are exerted on the central ceramic pillar (101) of the transducer. In an alternative form, the linkage pieces (307-309) between the casing (105) and the transducer are formed from flexible metal strips which are fixed by welding to the casing and to the transducer in order to improve the mechanical integrity and the leaktightness of these linkage pieces. It enables transducers which are more reliable and can withstand greater submerged depths to be obtained. <IMAGE>

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