

Title (en)  
Laminated piezoelectric transducer and method of manufacturing the same

Title (de)  
Laminierter piezoelektrischer Wandler und Verfahren zur Herstellung desselben

Title (fr)  
Transducteur piézoélectrique stratifié et son procédé de fabrication

Publication  
**EP 1799009 B1 20090311 (EN)**

Application  
**EP 05027342 A 20051214**

Priority  
EP 05027342 A 20051214

Abstract (en)  
[origin: EP1819191A2] An underwater acoustic transducer (10) comprising a laminated waterproof and sealed active acoustic element (14) for transducing sound and electrical signals; a front and rear housing element (24) disposed on each side of the active acoustic element (14) to define a corresponding front and rear acoustic chamber on each side of the active acoustic element (14), each housing element (24) defining a corresponding port (30) therethrough of a predetermined diameter and thickness to provide tuning of the corresponding acoustic chamber and to provide free flooding acoustic chambers; and a rear cover (38) disposed on the rear housing element (38) and defining a corresponding port (40) therethrough of a predetermined diameter and thickness to provide further tuning of the corresponding rear acoustic chamber while maintaining the free flooding characteristic of the rear acoustic chamber.

IPC 8 full level  
**H04R 1/44** (2006.01)

CPC (source: EP)  
**H04R 1/44** (2013.01); **H04R 17/00** (2013.01)

Cited by  
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