

Title (en)  
Ultrasound converter and ultrasound sensor

Title (de)  
Ultraschallwandler und Ultraschallsensor

Title (fr)  
Transducteur à ultrasons et capteur à ultrasons

Publication  
**EP 1902789 B1 20140319 (DE)**

Application  
**EP 07405234 A 20070813**

Priority  
CH 15192006 A 20060922

Abstract (en)  
[origin: EP1902789A1] The transducer (1) has an adaptation layer (5) for acoustic impedance matching of a piezo-ceramic disc (3) at an environmental medium. The piezo-ceramic disc and the adaptation layer are embedded into a damping body (7). The layer is provided with a radiating surface (8), where a front side of the transducer with the radiating surface and a part of an upper surface of a cupular transducer housing (9) are coated with a parylene layer (11). The damping body is embedded into the transducer housing in such a manner that the radiating surface is free. Independent claims are also included for the following: (1) a method for manufacturing an ultrasound transducer (2) an ultrasound sensor comprising a housing (3) a method for manufacturing an ultrasound sensor.

IPC 8 full level  
**B06B 1/06** (2006.01); **G10K 9/122** (2006.01); **G10K 9/22** (2006.01)

CPC (source: EP)  
**G10K 9/22** (2013.01); **G10K 11/02** (2013.01)

Cited by  
CN105122488A; US9311908B2; WO2011009513A1; DE102022200918B3; WO2023143969A1

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