

Title (en)  
Ultrasonic transducer with moulded centering element

Title (de)  
Ultraschallwandlereinrichtung mit Zentrier-Formteil

Title (fr)  
Transducteur ultrasonore muni d'une pièce moulée de centrage

Publication  
**EP 0940801 B1 20040121 (DE)**

Application  
**EP 99103792 A 19990226**

Priority  
DE 19809206 A 19980304

Abstract (en)  
[origin: EP0940801A2] The ultrasonic transducer device has an ultrasonic transducer with a piezoceramic disk (2) and an adaptive layer disk (1). The transducer is partly embedded in a housing (3) by means of a polymer foam material (5). The adaptive layer disk (1) is centred at its circumferential surface by a foam moulding (4). This is preferably in the form of a ring against which the circumference of the disk lies. The moulding (4) may be bonded to the ultrasound wave emitting surface of the adaptor layer disk (1). The moulding (4) may be made from a foam with a closed cell structure.

IPC 1-7  
**G10K 9/122**; **G10K 11/00**

IPC 8 full level  
**B06B 1/06** (2006.01); **G10K 9/122** (2006.01); **G10K 11/00** (2006.01)

CPC (source: EP)  
**B06B 1/067** (2013.01); **G10K 11/004** (2013.01)

Cited by  
DE102018006127B4; CN112566731A; KR20210027399A; JP2021532369A; KR20210027398A; CN112533708A; US11867805B2; US11808850B2; WO2020025157A1; WO2020025158A1; US11906293B2; WO2020011387A1; WO2020025156A1; DE102018005540B4; US11869479B2

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