

Title (en)  
ULTRASONIC TRANSDUCER

Title (de)  
ULTRASCHALLWANDLER

Title (fr)  
TRANSDUCTEUR ULTRASONORE

Publication  
**EP 1064645 A2 20010103 (DE)**

Application  
**EP 98959707 A 19981005**

Priority  
• DE 9802938 W 19981005  
• DE 19744229 A 19971007

Abstract (en)  
[origin: DE19744229A1] The ultrasonic transducer has a cup-like housing (1) with an annular wall and a bottom surface (2) that serves as membrane. A piezoelectric element, fitted on the inside of the bottom surface, is connected to bonding conductors (3). The side opposite the bottom surface is enclosed by a decoupling ring (4) which is configured as a retainer for the bonding conductors.

IPC 1-7  
**G10K 9/122**

IPC 8 full level  
**G10K 9/122** (2006.01); **G10K 13/00** (2006.01)

CPC (source: EP US)  
**G10K 9/122** (2013.01 - EP US); **G10K 13/00** (2013.01 - EP US)

Citation (search report)  
See references of WO 9918563A2

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 19744229 A1 19990429**; DE 59809750 D1 20031030; EP 1064645 A2 20010103; EP 1064645 B1 20030924; US 6374676 B1 20020423; WO 9918563 A2 19990415; WO 9918563 A3 19990610

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**DE 19744229 A 19971007**; DE 59809750 T 19981005; DE 9802938 W 19981005; EP 98959707 A 19981005; US 52913600 A 20000602