

Title (en)
ULTRASONIC TRANSDUCER

Title (de)
ULTRASCHALLWANDLER

Title (fr)
TRANSDUCTEUR ULTRASONORE

Publication
EP 1064645 B1 20030924 (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)

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