

Title (en)  
ULTRASONIC TRANSDUCER WITH CONTACT MEMBER

Title (de)  
ULTRASCHALLWANDLER MIT KONTAKTGLIED

Title (fr)  
TRANSDUCTEUR ULTRASONIQUE AVEC ELEMENT DE CONTACT

Publication  
**EP 0909223 B1 20010919 (DE)**

Application  
**EP 97929161 A 19970610**

Priority  
• DE 19626293 A 19960701  
• EP 9703019 W 19970610

Abstract (en)  
[origin: DE19626293A1] The invention concerns an ultrasonic transducer with a pot-shaped oscillating element which sits in a transducer housing and which has a piezo disc at the base. The aim of the invention is to simplify the electrical contacting of the connecting leads to the oscillating element or piezo disc and to make this more adaptable to automatic production. The device of the invention comprises contact springs (3, 4) which are no longer soldered to or caulked with the indicated element but only resiliently rest on the element. Improvements are made through a contact body (1) which essentially forms a cylinder, in which the contact springs (3, 4) are sealed and which at the same time can serve as a shock absorber.

IPC 1-7  
**B06B 1/06; G10K 11/00**

IPC 8 full level  
**B06B 1/06** (2006.01); **G10K 11/00** (2006.01); **H02N 2/00** (2006.01)

CPC (source: EP US)  
**B06B 1/0644** (2013.01 - EP US); **B06B 1/0685** (2013.01 - EP US); **G10K 11/004** (2013.01 - EP US)

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**US 6163505 A 20001219**; DE 19626293 A1 19980108; DE 59704677 D1 20011025; EP 0909223 A1 19990421; EP 0909223 B1 20010919; ES 2160960 T3 20011116; HU P9904041 A2 20000328; WO 9800242 A1 19980108

DOCDB simple family (application)  
**US 21454799 A 19990524**; DE 19626293 A 19960701; DE 59704677 T 19970610; EP 9703019 W 19970610; EP 97929161 A 19970610; ES 97929161 T 19970610; HU P9904041 A 19970610