

Title (en)

Piezoelectric ultrasound transducer

Title (de)

Piezoelektrischer Ultraschallwandler

Title (fr)

Transducteur piezoélectrique à ultrasons

Publication

**EP 1181988 B1 20070328 (DE)**

Application

**EP 01119332 A 20010810**

Priority

DE 10040344 A 20000817

Abstract (en)

[origin: EP1181988A2] The device has at least one piezoelectric element (16) between two clamp sections (12,14) and at least one clamp element (18) with which the piezoelectric element is biased by the clamp sections. The clamp element is in the form of an annular clamping spring with at least one peripheral recess (22,24) in its wall. Independent claims are also included for the following: a clamp element for an ultrasonic transducer.

IPC 8 full level

**B06B 1/06** (2006.01)

CPC (source: EP US)

**B06B 1/0618** (2013.01 - EP US)

Cited by

CN101630012A; EP2141074B1; EP4249859A2; DE102022107092A1; DE102022107092B4

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1181988 A2 20020227; EP 1181988 A3 20041020; EP 1181988 B1 20070328**; AT E357980 T1 20070415; DE 10040344 A1 20020228; DE 50112259 D1 20070510; ES 2280287 T3 20070916; US 2002041130 A1 20020411; US 6570295 B2 20030527

DOCDB simple family (application)

**EP 01119332 A 20010810**; AT 01119332 T 20010810; DE 10040344 A 20000817; DE 50112259 T 20010810; ES 01119332 T 20010810; US 94404601 A 20010830