

Title (en)
ULTRASONIC TRANSDUCER

Title (de)
ULTRASCHALLWANDLER

Title (fr)
TRANSDUCTEUR A ULTRASONS

Publication
EP 0598715 B1 19971105 (EN)

Application
EP 91908273 A 19910424

Priority
• AU 9100157 W 19910424
• AU PJ987390 A 19900427

Abstract (en)
[origin: WO9117637A1] Ultrasonic piezoelectric transducer comprising a piezoelectric material (10) having a profile whereby the transducer transmits and/or receives ultrasonic vibrations in a dilational (quasilongitudinal) mode. The profile is curved and includes a point of inflection. Possesses a vibrational peak in the frequency range 10 KHz - 200 KHz. Construction is performed via profiling and tensioning the piezoelectric material.

IPC 1-7
H04R 17/00; **B06B 1/06**; **G10K 11/32**

IPC 8 full level
H04R 17/00 (2006.01); **B06B 1/06** (2006.01); **G10K 11/32** (2006.01)

CPC (source: EP)
B06B 1/0688 (2013.01); **G10K 11/32** (2013.01)

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
WO 9117637 A1 19911114; AT E160069 T1 19971115; AU 660610 B2 19950706; AU 7741391 A 19911127; CA 2081472 A1 19911028; CN 1039867 C 19980916; CN 1056267 A 19911120; DE 69128155 D1 19971211; DE 69128155 T2 19980305; DK 0598715 T3 19980810; EP 0598715 A1 19940601; EP 0598715 A4 19930608; EP 0598715 B1 19971105; ES 2109267 T3 19980116; FI 924849 A0 19921026; FI 924849 A 19921026; GR 3025648 T3 19980331; HU 9203367 D0 19930301; HU T64672 A 19940128; IE 80771 B1 19990210; IE 911425 A1 19911106; IN 177551 B 19970208; JP H05507183 A 19931014; KR 960012986 B1 19960925; NO 306530 B1 19991115; NO 924136 D0 19921026; NO 924136 L 19921223; NZ 237971 A 19941125; SG 46263 A1 19980220

DOCDB simple family (application)
AU 9100157 W 19910424; AT 91908273 T 19910424; AU 7741391 A 19910424; CA 2081472 A 19910424; CN 91102579 A 19910427; DE 69128155 T 19910424; DK 91908273 T 19910424; EP 91908273 A 19910424; ES 91908273 T 19910424; FI 924849 A 19921026; GR 970403300 T 19971210; HU 336792 A 19910424; IE 142591 A 19910426; IN 320CA1991D A 19910425; JP 50790891 A 19910424; KR 920702695 A 19921027; NO 924136 A 19921026; NZ 23797191 A 19910426; SG 1996001724 A 19910424