

Title (en)
ULTRASONIC TRANSDUCER

Publication
EP 0053947 B1 19851030 (EN)

Application
EP 81305827 A 19811210

Priority
JP 17432880 A 19801210

Abstract (en)
[origin: EP0053947A1] An ultrasonic transducer is characterized in that a diaphragm (13) is disposed at the centre of a laminated piezo-electric element (11) and the periphery of the diaphragm (13) is flexibly fixed to a housing (17) for the element (11) through a buffer member (20) of a resilient material such as elastic rubber in order to suppress mechanical oscillation.

IPC 1-7
H04R 17/10

IPC 8 full level
G01S 7/521 (2006.01); **G10K 9/122** (2006.01); **H04R 1/32** (2006.01); **H04R 17/00** (2006.01); **H04R 17/10** (2006.01)

CPC (source: EP)
G10K 9/122 (2013.01); **H04R 17/00** (2013.01); **H04R 17/10** (2013.01)

Citation (examination)
• US 4190783 A 19800226 - MASSA FRANK [US]
• US 4190784 A 19800226 - MASSA FRANK [US]

Cited by
US6092550A; GB2209644A; EP0582557A3; EP0075273A1; EP0080100A1; US4607186A; GB2215049A; GB2215049B; US6189861B1; US7241207B2

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