

Title (en)
ULTRASONIC PROBE

Publication
EP 0480045 A4 19930414 (EN)

Application
EP 91906265 A 19910319

Priority
• JP 7108290 A 19900320
• JP 7108390 A 19900320
• JP 7108490 A 19900320
• JP 7108590 A 19900320

Abstract (en)
[origin: WO9115090A1] An ultrasonic probe for high-resolution ultrasonic imaging is provided. The probe includes an assembly of piezoelectric elements (11), which has a wide frequency range and a self-weighted distribution of ultrasonic amplitudes to attenuate side-lobe levels.

IPC 1-7
H04R 17/00

IPC 8 full level
B06B 1/06 (2006.01)

CPC (source: EP)
B06B 1/06 (2013.01); **B06B 1/0629** (2013.01)

Citation (search report)
• [A] EP 0142215 A2 19850522 - ADVANCED TECH LAB [US]
• [A] EP 0162515 A1 19851127 - ELECTRONIQUE & PHYSIQUE [FR], et al
• [A] PROCEEDINGS IEEE 1988 ULTRASONICS SYMPOSIUM vol. 1, October 1988, CHICAGO, ILLINOIS, USA pages 627 - 630 TUAN BUI ET AL.
'A multifrequency composite ultrasonic transducer system'
• See references of WO 9115090A1

Cited by
CN102959987A; CN102986249A; CN100344385C; EP0615225A3; US7309947B2; US9095880B2; US7287537B2; WO03064064A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 9115090 A1 19911003; CA 2054698 A1 19910921; EP 0480045 A1 19920415; EP 0480045 A4 19930414

DOCDB simple family (application)
JP 9100367 W 19910319; CA 2054698 A 19910319; EP 91906265 A 19910319