

Title (en)  
ULTRASONIC PROBE

Publication  
**EP 0190948 A3 19870812 (EN)**

Application  
**EP 86300880 A 19860210**

Priority  
• JP 2387585 A 19850208  
• JP 2387685 A 19850208  
• JP 2387785 A 19850208

Abstract (en)  
[origin: EP0190948A2] An ultrasonic probe for an ultrasonic medical diagnostic apparatus which is composed of a plurality of piezoelectric vibrators (1) with electrodes (8, 9) attached onto both surfaces thereof and one or two acoustic matching layers (3, 6) which are provided on the surface of one electrode (8) of the piezoelectric vibrator. One of the acoustic matching layers is made of thermosetting resin such as epoxy resin mixed with carbonyl group material. A backing load member (2) which is made of epoxy resin or rubber material mixed with microspheres and metal or insulator powder is provided on the surface of the other electrode (9) of the piezoelectric vibrator. A filler material (5) which is made of rubber material or thermosetting resin is filled between each of said piezoelectric vibrators.

IPC 1-7  
**G10K 11/34**

IPC 8 full level  
**B06B 1/06** (2006.01)

CPC (source: EP)  
**B06B 1/0622** (2013.01)

Citation (search report)  
• [Y] EP 0128049 A2 19841212 - MATSUSHITA ELECTRIC IND CO LTD [JP]  
• [AP] EP 0142318 A2 19850522 - MATSUSHITA ELECTRIC IND CO LTD [JP]  
• [A] DE 3119272 A1 19820401 - MATSUSHITA ELECTRIC IND CO LTD [JP]  
• [Y] 1978 ULTRASONICS SYMPOSIUM PROCEEDINGS, 25th - 27th September 1978, Cherry Hill, New Jersey, US, pages 111-116, IEEE, New York, US; C.S. DESILETS et al.: "Highly efficient transducer arrays useful in nondestructive testing applications"  
• [A] JOURNAL OF ACOUSTICAL SOCIETY OF AMERICA, vol. 69, no. 5, May 1981, pages 1505-1506, Acoust. Soc. Am., New York, US; S. ROKHLIN et al.: "Acoustic properties of tungsten-tin composites"

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Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0190948 A2 19860813; EP 0190948 A3 19870812; EP 0190948 B1 19920122; DE 3683509 D1 19920305**

DOCDB simple family (application)  
**EP 86300880 A 19860210; DE 3683509 T 19860210**