

Title (en)

COMPOUND ULTRASONAR SONAR TRANSDUCER

Publication

**EP 0369127 A3 19911106 (DE)**

Application

**EP 89116379 A 19890905**

Priority

DE 3833144 A 19880929

Abstract (en)

[origin: EP0369127A2] A compound ultrasonic sonar, which operates as a  $\lambda/2$  thickness-mode transducer, having a piezoelectric vibrator body, in which it is provided that there is applied to the surface, facing a mounting area, of the vibrator body (K) of thickness DK a matching layer (A) of thickness DA made of a material that in relation to the piezoceramic material of the vibrator body (K) has a low product of thickness and modulus of elasticity E, and that the thickness DA of the matching layer (A) is matched to the thickness DK of the vibrator body (K) so that a virtually complete reflection of the ultrasonic component, which is emitted in the direction of the mounting surface, takes place at the mounting surface. <IMAGE>

IPC 1-7

**B06B 1/06**; **G10K 11/02**

IPC 8 full level

**H04R 1/44** (2006.01); **B06B 1/06** (2006.01); **G01S 7/521** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP)

**B06B 1/067** (2013.01)

Citation (search report)

- [A] FR 2503517 A1 19821008 - THOMSON CSF [FR]
- [A] EP 0142178 A1 19850522 - ELECTRONIQUE & PHYSIQUE [FR], et al
- [A] GB 2052917 A 19810128 - HEWLETT PACKARD CO

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0369127 A2 19900523**; **EP 0369127 A3 19911106**; JP H02122290 A 19900509

DOCDB simple family (application)

**EP 89116379 A 19890905**; JP 25371989 A 19890927