

Title (en)  
ACOUSTIC DEVICE ACCORDING TO BENDING WAVE PRINCIPLE

Title (de)  
AKUSTISCHE VORRICHTUNG NACH DEM BIEGEWELLENPRINZIP

Title (fr)  
DISPOSITIF ACOUSTIQUE CONFORME AU PRINCIPE DES ONDES DE FLEXION

Publication  
**EP 1125473 B1 20030409 (EN)**

Application  
**EP 99952703 A 19991105**

Priority

- GB 9903656 W 19991105
- GB 9824256 A 19981106

Abstract (en)  
[origin: WO0028781A1] An acoustic device has an outer shell (1) supporting bending waves and enclosing a volume (2). The bending waves couple to the enclosed volume to provide coupled resonant modes. A transducer (3, 5) is coupled to the shell to excite the coupled resonant modes. The coupling of the enclosed volume can improve the distribution of resonant modes.

IPC 1-7  
**H04R 7/12**; **H04R 1/22**; **H04R 1/02**; **H04R 1/28**

IPC 8 full level  
**H04R 9/00** (2006.01); **H04R 1/00** (2006.01); **H04R 1/02** (2006.01); **H04R 1/22** (2006.01); **H04R 1/28** (2006.01); **H04R 7/12** (2006.01); **H04R 7/04** (2006.01); **H04R 7/06** (2006.01)

CPC (source: EP KR)  
**H04R 1/02** (2013.01 - EP KR); **H04R 1/227** (2013.01 - EP); **H04R 7/122** (2013.01 - EP); **H04R 1/2819** (2013.01 - EP); **H04R 7/045** (2013.01 - EP); **H04R 7/06** (2013.01 - EP)

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

DOCDB simple family (publication)  
**WO 0028781 A1 20000518**; AT E237211 T1 20030415; AU 6481399 A 20000529; AU 745969 B2 20020411; BR 9915114 A 20010731; CA 2349861 A1 20000518; CN 1135058 C 20040114; CN 1325606 A 20011205; DE 69906775 D1 20030515; DE 69906775 T2 20040129; EP 1125473 A1 20010822; EP 1125473 B1 20030409; ES 2197682 T3 20040101; GB 9824256 D0 19981230; HK 1035988 A1 20011214; IL 142429 A0 20020310; JP 2002530032 A 20020910; KR 20010080941 A 20010825; NZ 510971 A 20020301; TW 462202 B 20011101; ZA 200102755 B 20011008

DOCDB simple family (application)  
**GB 9903656 W 19991105**; AT 99952703 T 19991105; AU 6481399 A 19991105; BR 9915114 A 19991105; CA 2349861 A 19991105; CN 99812822 A 19991105; DE 69906775 T 19991105; EP 99952703 A 19991105; ES 99952703 T 19991105; GB 9824256 A 19981106; HK 01106542 A 20010915; IL 14242999 A 19991105; JP 2000581852 A 19991105; KR 20017005652 A 20010504; NZ 51097199 A 19991105; TW 88119786 A 19991111; ZA 200102755 A 20010404