

Title (en)  
High frequency loudspeaker

Title (de)  
Hochtonlautsprecher

Title (fr)  
Haut-parleur à haute fréquence

Publication  
**EP 1158834 A3 20070502 (DE)**

Application  
**EP 01107224 A 20010317**

Priority  
DE 10025460 A 20000523

Abstract (en)  
[origin: EP1158834A2] The driver is constructed for excitation at higher sound frequencies. The composite sandwich panel (3) is constructed to propagate flexural waves and is supported freely without damping by holders (12). The holders are constructed to avoid damping at higher frequencies.

IPC 8 full level  
**H04R 23/00** (2006.01); **H04R 5/02** (2006.01); **H04R 7/10** (2006.01); **H04R 7/16** (2006.01); **H04R 1/24** (2006.01); **H04R 7/04** (2006.01)

CPC (source: EP US)  
**H04R 7/10** (2013.01 - EP US); **H04R 7/16** (2013.01 - EP US); **H04R 1/24** (2013.01 - EP US); **H04R 7/045** (2013.01 - EP US);  
**H04R 2307/021** (2013.01 - EP US); **H04R 2307/025** (2013.01 - EP US); **H04R 2307/027** (2013.01 - EP US); **H04R 2307/029** (2013.01 - EP US)

Citation (search report)

- [XY] GB 2246684 A 19920205 - SECR DEFENCE [GB]
- [Y] FR 561357 A 19231020 - SIGNAL GES M B H SOC
- [DA] WO 9709842 A2 19970313 - VERITY GROUP PLC [GB], et al
- [A] WO 0015000 A1 20000316 - NEW TRANSDUCERS LTD [GB], et al
- [A] WO 9321743 A1 19931028 - BERTAGNI ELECTRONIC SOUND TRAN [US]

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

Designated extension state (EPC)  
AL LT LV MK RO SI

DOCDB simple family (publication)  
**EP 1158834 A2 20011128; EP 1158834 A3 20070502; EP 1158834 B1 20110119**; DE 10025460 A1 20011206; DE 10025460 B4 20040318;  
DE 50115777 D1 20110303; US 2001055403 A1 20011227; US 6888946 B2 20050503

DOCDB simple family (application)  
**EP 01107224 A 20010317**; DE 10025460 A 20000523; DE 50115777 T 20010317; US 83888601 A 20010420