

Title (en)  
LOUDSPEAKER

Title (de)  
LAUTSPRECHER

Title (fr)  
HAUT-PARLEUR

Publication  
**EP 1397938 A2 20040317 (DE)**

Application  
**EP 02737944 A 20020411**

Priority  
• DE 10120281 A 20010425  
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Abstract (en)  
[origin: WO02089522A2] A loudspeaker consisting of a diaphragm, an oscillation coil carrier secured to the diaphragm in a central area, an oscillation coil wound around said oscillation coil carrier, a magnet system which is inserted into the oscillation coil carrier and oscillation coil in a partial or complete manner, a basket supporting the magnet system and enclosing the diaphragm on one half side thereof, an elastic bead secured to the basket and an edge area of the diaphragm, and a centering device fixed to the basket and secured to the diaphragm in a central area, said centering device being provided with an elastic bead which is directly or indirectly secured to the basket and the diaphragm.

IPC 1-7  
**H04R 7/20**

IPC 8 full level  
**H04R 7/20** (2006.01); **H04R 9/04** (2006.01)

CPC (source: EP US)  
**H04R 7/20** (2013.01 - EP US); **H04R 9/043** (2013.01 - EP US)

Citation (search report)  
See references of WO 02089522A2

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**EP 0204054 W 20020411**; DE 10120281 A 20010425; EP 02737944 A 20020411; US 47507804 A 20040329