

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
• EP 0204054 W 20020411

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

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

DOCDB simple family (publication)
WO 02089522 A2 20021107; WO 02089522 A3 20030814; DE 10120281 C1 20021205; EP 1397938 A2 20040317; US 2004165746 A1 20040826; US 7292707 B2 20071106

DOCDB simple family (application)
EP 0204054 W 20020411; DE 10120281 A 20010425; EP 02737944 A 20020411; US 47507804 A 20040329