

Title (en)
LOUDSPEAKER

Title (de)
LAUTSPRECHER

Title (fr)
HAUT-PARLEUR

Publication
EP 1586219 A1 20051019 (DE)

Application
EP 03815541 A 20031119

Priority
• EP 0312940 W 20031119
• DE 10303030 A 20030125

Abstract (en)
[origin: WO2004068898A1] The invention relates to a loudspeaker comprising at least one magnet (5), a membrane (2) with an outer edge (32) defining an outer edge plane (30) of the membrane, a bead (3) surrounding the membrane (2), a moving coil (9) which is fixed to the first membrane (2), and a magnet system (4) comprising at least one magnet (9). Said loudspeaker also has a supporting structure (1) for receiving the magnet system (4) and the membrane, the membrane being connected to the supporting structure by means of the bead, and the supporting structure has a front side which is oriented towards the membrane and a rear side which is oriented in the opposite direction. Said membrane (2) is at least partially convex towards the front, in the predominant acoustic direction (33), and the region (28) of the membrane (2), to which the moving coil is fixed, is arranged in front of the outer edge plane (30) of the membrane. The diameter (D) of the membrane (2) is larger than the diameter of the moving coil (d) which moves the membrane (2).

IPC 1-7
H04R 7/12; **H04R 9/04**

IPC 8 full level
H04R 7/12 (2006.01); **H04R 9/04** (2006.01); **H04R 1/06** (2006.01); **H04R 1/24** (2006.01)

CPC (source: EP US)
H04R 7/127 (2013.01 - EP US); **H04R 1/06** (2013.01 - EP US); **H04R 1/24** (2013.01 - EP US); **H04R 9/043** (2013.01 - EP US)

Citation (search report)
See references of WO 2004068898A1

Cited by
CN104581550A; CN108370473A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004068898 A1 20040812; AT E452512 T1 20100115; AU 2003303844 A1 20040823; CN 1732710 A 20060208; DE 10303030 A1 20040805; DE 50312249 D1 20100128; EP 1586219 A1 20051019; EP 1586219 B1 20091216; JP 2006513664 A 20060420; JP 4404780 B2 20100127; US 2007009133 A1 20070111; US 7286681 B2 20071023

DOCDB simple family (application)
EP 0312940 W 20031119; AT 03815541 T 20031119; AU 2003303844 A 20031119; CN 200380107644 A 20031119; DE 10303030 A 20030125; DE 50312249 T 20031119; EP 03815541 A 20031119; JP 2004567295 A 20031119; US 54252103 A 20031119