

Title (en)
Cup-shaped loudspeaker armature with magnets from neodymium

Title (de)
Becherförmiger Lautsprecheranker mit Neodymmagneten

Title (fr)
Armature haut-parleur en forme de coupelle avec d'aimants néodymes

Publication
EP 1248494 B1 20090826 (EN)

Application
EP 02004928 A 20020305

Priority
IT RE20010026 A 20010323

Abstract (en)
[origin: EP1248494A2] A cup (1, 1') for loudspeakers (2, 2') from neodymium, with possible upper planar plates (6) having such a shape as to obtain: greater ventilation air volumes (5, 5'), greater thermal dissipation and greater distance (D, D') between the diametric surfaces (3, 3') of magnets (2, 2') and the internal surfaces (4, 4') of said cups. The cup has a convex shape and the ratio between the medium diameter (A) related to the internal wall at the flexion point and the external diameter (B) ranges between 1.4 and 1.8.
[origin: EP1248494A2] A cup (1) has a convex configuration and the distance between the diametric surface (3) of a neodymium magnet (2) and the internal surface (4) of the cup allows forming of a toroidal chamber (5) with a large air volume to achieve good cooling ventilation of the mobile bobbin and to prevent compression phenomena acting on the loudspeaker.

IPC 8 full level
H04R 9/02 (2006.01); **H04R 9/06** (2006.01)

CPC (source: EP)
H04R 9/025 (2013.01)

Citation (examination)
• US 5987148 A 19991116 - HSIEH CHEN-HUGH [TW]
• "CORNER SPEAKERS' JOHN WATKINSON EXPLAINS WHY SOME WOOFERS ARE GOOD - AND OTHERS AREN'T", ELECTRONICS WORLD, NEXUS MEDIA COMMUNICATIONS, SWANLEY, KENT, GB, 31 January 1998 (1998-01-31), XP000846484

Cited by
US11668270B2; US10859073B2; US10947940B2; US11002234B2; US9500170B2; US10330061B2; US11286895B2

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DOCDB simple family (application)
EP 02004928 A 20020305; AR P020100920 A 20020314; AT 02004928 T 20020305; BR 0201190 A 20020322; DE 60233455 T 20020305; ES 02004928 T 20020305; IT RE20010026 A 20010323; PL 35298402 A 20020323