

Title (en)

COMPACT HIGH PERFORMANCE SPEAKER

Title (de)

KOMPAKTER LAUTSPRECHER MIT HOHER LEISTUNGSFÄHIGKEIT

Title (fr)

HAUT-PARLEUR COMPACT A HAUTES PERFORMANCES

Publication

EP 1329130 B1 20150218 (EN)

Application

EP 01948816 A 20010627

Priority

- US 0120682 W 20010627
- US 21468900 P 20000627

Abstract (en)

[origin: WO0201913A1] A speaker has first and second annular magnets (1, 2) arranged concentrically with each other and connected by a shunt (3) at one end and a pole-defining structure (4, 5) at the other end to concentrate magnetic flux in a cylindrical voice coil gap (G). The shunt and pole structure are stacked such that the combined magnetic assembly has an opening (C) extending centrally therethrough. A voice coil (VC) rides in the cylindrical magnetic flux gap and its leads are brought out through the opening (C) to the other side of the magnet. When used with an enclosure, the diaphragm (D) of the speaker may communicate through the central opening with the volume of a tuned enclosure extending behind the speaker, or the opening may serve as a port of the enclosure, allowing further degrees of control over total acoustics. Shaped pole pieces each lying against one of the magnets together define a shallow voice coil gap of high flux density in which the field is efficiently focused.

IPC 8 full level

H04R 9/06 (2006.01); **H04R 9/00** (2006.01); **H04R 9/02** (2006.01); **H04R 9/04** (2006.01)

CPC (source: EP)

H04R 9/025 (2013.01); **H04R 9/063** (2013.01); **H04R 2209/026** (2013.01)

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 0201913 A1 20020103; AU 7024601 A 20020108; CN 1443433 A 20030917; EP 1329130 A1 20030723; EP 1329130 A4 20070321; EP 1329130 B1 20150218; JP 2004502365 A 20040122

DOCDB simple family (application)

US 0120682 W 20010627; AU 7024601 A 20010627; CN 01811725 A 20010627; EP 01948816 A 20010627; JP 2002505553 A 20010627