

Title (en)
Coaxial two-way drive unit for horn speakers

Title (de)
Koaxial zwei-wege-Hornlautsprechertreiber

Title (fr)
Unité de commande coaxiale à deux voix pour haut-parleur à pavillon

Publication
EP 1755357 A2 20070221 (EN)

Application
EP 06117048 A 20060712

Priority
IT AO20050155 A 20050715

Abstract (en)
A coaxial two-way drive unit (1) for horn-loading speakers, comprising a first voice coil drive unit (6, 8) associated with a second voice coil drive unit (18, 19). The first unit is frustum of cone shaped, while the second unit is shaped like an annular diaphragm (19) with the voice coil (18) arranged on a circle placed between the inner and outer circular perimeter of said annular diaphragm (19). The first drive unit (6) is associated with a truncated segmented substantially conical element (3), with a first end facing towards the cone and a second tapered end facing towards the mouth of the drive unit, the second drive unit being associated with an ogive-shaped element (20, 31) cooperating with said substantially conical element and facing towards the mouth of the drive unit. The first and second drive units (6, 19) are associated with a respective magnetic structure with high-energy permanent magnets that define a first and a second air gap cooperating with the voice coil (8) of the cone-shaped element (6) and with the voice coil (18) of the annular diaphragm-shaped element (19).

IPC 8 full level
H04R 1/24 (2006.01); **H04R 1/30** (2006.01)

CPC (source: EP)
H04R 1/24 (2013.01); **H04R 1/30** (2013.01); **H04R 9/063** (2013.01)

Cited by
GB2458275A; FR2955444A1; CN102907115A; GB2502189A; GB2502189B; US9042594B2; US8989429B2; US9271071B2; WO2011086299A1; WO2011086300A1; US9084056B2; US9232301B2

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Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
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