Title (en)
Loudspeaker.

Title (de)
Lautsprecher.

Title (fr)
Haut-parleur.

Publication
EP 0341926 B1 19941207 (EN)

Application
EP 89304569 A 19890505

Priority
GB 8810943 A 19880509

Abstract (en)
[origin: EP0341926A1] A compound loudspeaker drive unit is disclosed comprising a low frequency unit having an outwardly and forwardly flaring conical diaphragm (21) and a high frequency drive unit (27) located in or adjacent to the neck of the low frequency conical diaphragm such that the acoustic centres of the two units are substantially coincident and, for a cross-over frequency range in which both drive units contribute significant sound output, the directivity of sound radiation from the high frequency unit (27) as acoustically loaded by the low frequency conical diaphragm (21) is substantially the same as that of the low frequency unit. A magnet structure (28,29,30) for the high frequency unit utilises a magnet (29) formed of neodymium iron boron which enables the high frequency unit (27) to be positioned within a drive coil (23,24) for the low frequency diaphragm while providing a required high value of magnetic flux.

IPC 1-7
H04R 1/24; H04R 9/00

IPC 8 full level
H04R 1/24 (2006.01); **H04R 9/02** (2006.01); **H04R 9/06** (2006.01)

CPC (source: EP KR)
H04R 1/24 (2013.01 - EP KR); **H04R 9/02** (2013.01 - EP); H04R 9/025 (2013.01 - EP)

Cited by
FR2955447A1; CN102484755A; US5426707A; EP0581129A1; EP1173042A3; FR2955446A1; CN110830891A; GB2364847A; GB2364847B; FR2955445A1; GB2359213A; GB2359213B; EP0591837A1; US5402503A; US9042594B2; US8989429B2; GB2368484A; GB2368484B; US5729617A; FR2955444A1; CN102907115A; CN102884809A; WO9206569A1; WO2011086302A1; WO2011086301A1; WO2011010254A1; US6792127B1; WO2011051659A2; WO2004080121A1; WO2011086303A1; WO2011086299A1; WO2011086300A1; US9084056B2; US9232301B2

Designated contracting state (EPC)
AT BE CH DE ES FR IT LI NL SE

DOCDB simple family (publication)
EP 0341926 A1 19891115; **EP 0341926 B1 19941207**; **EP 0341926 B2 20010207**; AT E115352 T1 19941215; AU 3558189 A 19891129; CA 1339519 C 19971028; DE 68919746 D1 19950119; DE 68919746 T2 19950420; DE 68919746 T3 20010613; ES 2065988 T3 19950301; GB 2236929 A 19910417; GB 2236929 B 19921104; GB 8810943 D0 19880615; GB 9023490 D0 19910109; HK 71893 A 19930730; JP 2766862 B2 19980618; JP H03504310 A 19910919; KR 0171567 B1 19990330; KR 900702744 A 19901208; NZ 229054 A 19920326; WO 8911201 A1 19891116

DOCDB simple family (application)
EP 89304569 A 19890505; AT 89304569 T 19890505; AU 3558189 A 19890505; CA 598852 A 19890505; DE 68919746 T 19890505; ES 89304569 T 19890505; GB 8810943 A 19880509; GB 8900476 W 19890505; GB 9023490 A 19901029; HK 71893 A 19930722; JP 50515389 A 19890505; KR 900700039 A 19900109; NZ 22905489 A 19890509