

Title (en)
MAGNETIC STRUCTURE FOR THE IRON-FREE MOTOR OF ELECTRODYNAMIC LOUDSPEAKER, MOTORS AND LOUDSPEAKERS

Title (de)
MAGNETISCHE STRUKTUR FÜR DEN EISENFREIEN MOTOR EINES ELEKTRODYNAMISCHEN LAUTSPRECHERS SOWIE
ENTSPRECHENDE MOTOREN UND LAUTSPRECHER

Title (fr)
STRUCTURE MAGNETIQUE POUR MOTEUR SANS FER DE HAUT-PARLEUR ELECTRODYNAMIQUE, MOTEURS ET HAUT-PARLEURS

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Abstract (en)
[origin: WO2009047455A2] The invention relates to a magnetic structure (5, 5', 5'', 10) generating a magnetic field for the iron-free motor of an electrodynamic loudspeaker (1) having a mobile coil (2), the magnetic structure generating a magnetic field in an air gap in which the coil is provided, said magnetic structure being formed of a stack of three magnets corresponding to an intermediate magnet (8, 8', 8'') and two upper and lower covering magnets (7, 9) (7', 9') (7'', 9'') (11, 12), said magnets defining a straight air gap edge and being contiguous, the intermediate magnet having a radial magnetic bias and the covering magnets having the same magnetic bias and remanent magnetisations. According to the invention, the covering magnets have a radial (7, 9) (7', 9') (7'', 9'') or axial (11, 12) magnetic bias and when the magnetic bias of the covering magnets is radial, the remanent magnetisation of each covering magnet is higher than the remanent magnetisation of the intermediate magnet, while when the magnetic bias of the covering magnets is axial, the remanent magnetisation of each covering magnet is lower than the remanent magnetisation of the intermediate magnet. The invention also relates to motors.

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