

Title (en)  
Loudspeaker.

Title (de)  
Lautsprecher.

Title (fr)  
Haut-parleur.

Publication  
**EP 0610769 A2 19940817 (EN)**

Application  
**EP 94101385 A 19940131**

Priority  
JP 3749093 A 19930202

Abstract (en)  
A magnetic gap-less loudspeaker of a high performance which has a good quality of a voice coil and provides easy wiring between tinsel wires and the voice coil. In the magnetic gap-less loudspeaker, two magnets (M1, M2) magnetized in the thickness direction are disposed with the same poles being faced each other and a voice coil (1) is disposed in a magnetic field generated by repulsion magnetic fluxes near at the outer circumferential areas of the magnets, wherein a reinforced paper 1B or bobbin material 1A1 is attached to at least a partial area of the outer surface of the voice coil. Conductive areas 1C are provided to the reinforced paper or bobbin material to which areas coil lead wires or tinsel wires are connected.  
<IMAGE>

IPC 1-7  
**H04R 9/02**; **H04R 9/04**

IPC 8 full level  
**H04R 1/06** (2006.01); **H04R 9/02** (2006.01); **H04R 9/04** (2006.01)

CPC (source: EP)  
**H04R 9/02** (2013.01); **H04R 9/025** (2013.01); **H04R 9/045** (2013.01)

Cited by  
EP0708578A3; EP1651004A3; EP4231665A1; US7676053B2; US10097926B2; US7760901B2

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