

Title (en)
Electroacoustic transducer

Title (de)
Elektroakustischer Wandler

Title (fr)
Transducteur électro-acoustique

Publication
EP 1182907 B1 20060222 (EN)

Application
EP 01307079 A 20010820

Priority
JP 2000253584 A 20000824

Abstract (en)
[origin: EP1182907A2] Conductor pattern portions CLa1 and CLb1 are printed on a center portion of a polymeric resin film, and the center portion is folded and then bonded, thereby forming a diaphragm 21 which integrally has a flat plate-like portion 23 having the conductor pattern portions CLa1 and CLb1, and first and second vibrating sections 21a and 21b having a curved shape. A magnet 17 and yokes 18 and 19 form a magnetic circuit and a magnetic gap MG. The flat plate-like portion 23 is inserted into the magnetic gap MG. The whole diaphragm 21 is supported by a support member 20 in a floating state. In this structure, when an audio signal is supplied to the conductor pattern portions CLa1 and CLb1, the flat plate-like portion 23 is vibrated in a direction H by dynamic force generated by the magnetic field in the magnetic gap MG, and current in the conductor pattern portions CLa1 and CLb1 which are inserted into the magnetic gap MG, and also the first and second vibrating sections 21a and 21b are vibrated in the direction H, so that a reproduced sound of excellent high-frequency characteristics is released. <IMAGE>

IPC 8 full level
H04R 7/12 (2006.01); **H04R 7/18** (2006.01); **H04R 9/00** (2006.01); **H04R 9/02** (2006.01); **H04R 9/04** (2006.01); **H04R 9/06** (2006.01); **H04R 31/00** (2006.01)

CPC (source: EP)
H04R 7/18 (2013.01); **H04R 9/045** (2013.01); **H04R 9/06** (2013.01); **H04R 9/025** (2013.01)

Cited by
EP3203758A4; US2017085979A1; EP3145214A4; EP2869595A1; EP2866467A1; CN104581559A; EP3038379A1; US10123122B2; US9398376B2; US10182294B2; US9106988B2; US9560453B2; US10142736B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1182907 A2 20020227; EP 1182907 A3 20030618; EP 1182907 B1 20060222; CN 1346230 A 20020424; DE 60117346 D1 20060427; DE 60117346 T2 20061012; JP 2002078079 A 20020315

DOCDB simple family (application)
EP 01307079 A 20010820; CN 01126069 A 20010824; DE 60117346 T 20010820; JP 2000253584 A 20000824