

Title (en)  
PLANAR ELECTROMAGNETIC TRANSDUCER

Title (de)  
EBENER ELEKTROMAGNETISCHER WANDLER

Title (fr)  
TRANSDUCTEURS ELECTROMAGNETIQUES PLANAIRES

Publication  
**EP 0707782 A4 19960123 (EN)**

Application  
**EP 93910886 A 19930429**

Priority  
US 9304012 W 19930429

Abstract (en)  
[origin: WO9426076A1] An electromagnetic transducer diaphragm (110) having an electrical conductor layer (221), with a conductor pattern, positioned between two insulating layers (220, 222) of a flexible, electrically insulating material bonded together to protect the diaphragm. An electrical current can flow through the conductors to produce magnetic and electrostatic fields around said conductors which interact with an electromagnetic field to produce mechanical displacement of the diaphragm which is turn produces an audio signal. Non-ferrous supports can be used to support the diaphragm. A magnet or magnets may be used to create the electromagnetic field. The magnets can be bonded to the cross arms of the non-ferrous support.

IPC 1-7  
**H04R 25/00**; **H04R 3/00**; **H04R 7/06**

IPC 8 full level  
**H04R 7/10** (2006.01); **H04R 7/06** (2006.01)

CPC (source: EP)  
**H04R 7/06** (2013.01)

Citation (search report)

- [YA] WO 8001230 A1 19800612 - LICENTIA GMBH [DE], et al
- [YA] FR 2477821 A1 19810911 - 3A ART ACOUSTIQUE APPLIQUEE SA [FR]
- [A] WO 9104643 A1 19910404 - TRUFITT ANTHONY LEONARD [AU]
- See references of WO 9426076A1

Designated contracting state (EPC)  
DE ES FR GB IT NL

DOCDB simple family (publication)  
**WO 9426076 A1 19941110**; AU 4222293 A 19941121; DE 69321146 D1 19981022; DE 69321146 T2 19990506; EP 0707782 A1 19960424; EP 0707782 A4 19960123; EP 0707782 B1 19980916; ES 2123647 T3 19990116; JP H08509853 A 19961015; KR 100310520 B1 20011217

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