

Title (en)  
MIXED ELECTROACOUSTIC TRANSDUCER

Publication  
**EP 0067790 B1 19850828 (FR)**

Application  
**EP 82810201 A 19820514**

Priority  
CH 355881 A 19810601

Abstract (en)  
[origin: EP0067790A1] 1. An electro-acoustic transducer able to operate as an emitter and as a pick-up of sound waves in the environment and comprising a receptacle (1) having an opening for communicating with said environment, a first diaphragm (12) mounted inside to receptacle, and means (4) for causing said first diaphragm to vibrate in response to an electric energizing signal applied there to when the transducer operates as an emitter, characterized in that it further comprises a second diaphragm (17) able to vibrate under the effect of sound waves and disposed between the opening of the receptacle (1) and the first diaphragm (12), at a distance from the latter, coupling means (19; 28) for imparting the vibrations of said first diaphragm to the second diaphragm when the transducer operates as an emitter and means (16, 25; 26, 25) for producing an output signal in response to vibrations of said second diaphragm produced by sound waves propagating in said environment when the transducer operates as a pick-up.

IPC 1-7  
**H04R 23/02**; H04R 1/22; H04R 7/08

IPC 8 full level  
**H04R 1/22** (2006.01); **H04R 23/02** (2006.01)

CPC (source: EP US)  
**H04R 1/22** (2013.01 - EP US); **H04R 23/02** (2013.01 - EP US)

Cited by  
AT401594B; US5014322A; US4504703A

Designated contracting state (EPC)  
DE FR GB NL

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**EP 0067790 A1 19821222**; **EP 0067790 B1 19850828**; CH 642504 A5 19840413; DE 3265798 D1 19851003; HK 75990 A 19900928; JP H0155640 B2 19891127; JP S57207500 A 19821220; US 4504703 A 19850312

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**EP 82810201 A 19820514**; CH 355881 A 19810601; DE 3265798 T 19820514; HK 75990 A 19900920; JP 9151182 A 19820531; US 64141684 A 19840816