

Title (en)  
INDUCTIVELY ACTIVATED LOUDSPEAKER WITH CONDUCTIVE TUBE

Publication  
**EP 0453130 A3 19920708 (EN)**

Application  
**EP 91302945 A 19910404**

Priority  
US 51067090 A 19900418

Abstract (en)  
[origin: EP0453130A2] An inductively activated loudspeaker produces sound by inducing an oscillating current in a shorted turn conductive tube that is positioned within a focused magnetic field. The loudspeaker includes an electrically excitable stationary coil positioned within the magnetic field and in inductive relation to the conductive cylinder. The oscillation of current within the stationary coil induces a corresponding oscillating current in the cylinder, which causes the cylinder to physically oscillate within the defined magnetic field. The resultant vibratory movement of the diaphragm, upon which the cylinder is mounted, has the effect of creating sound. Also disclosed is a combined stationary coil and outer pole assembly with internalized heat sinking, and which separably attaches to the remainder of the magnetic assembly of the loudspeaker.

IPC 1-7  
**H04R 9/02**; **H04R 9/06**; **H04R 11/02**

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

CPC (source: EP)  
**H04R 9/02** (2013.01); **H04R 9/06** (2013.01); **H04R 2209/043** (2013.01)

Citation (search report)  
• [X] EP 0339855 A2 19891102 - SONY CORP [JP]  
• [X] US 2494918 A 19500117 - VOLKERS WALTER K  
• [A] GB 469197 A 19370721 - COLE E K LTD, et al  
• [X] PATENT ABSTRACTS OF JAPAN vol. 8, no. 221 (E-271)(1658) 9 October 1984 & JP-A-59 103 498 ( AKASHI SEISAKUSHO K.K. )  
• [A] PATENT ABSTRACTS OF JAPAN vol. 6, no. 72 (E-105)21 January 1982 & JP-A-57 011 599 ( SONY CORP )

Cited by  
WO03070469A1

Designated contracting state (EPC)  
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**EP 91302945 A 19910404**; CA 2040092 A 19910409