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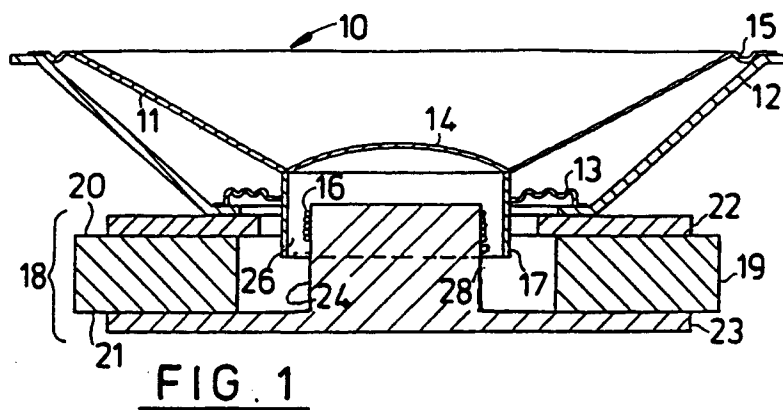
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08.07.92 Bulletin 92/28(71) Applicant: **KLIPSCH AND ASSOCIATES INC.**
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MARKS & CLERK Suite 301 Sunlight House
Ouay Street
Manchester M3 3JY(GB)(54) **Inductively activated loudspeaker with conductive tube.**

(57) 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.

**EP 0 453 130 A3**



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EUROPEAN SEARCH REPORT

Application Number

EP 91 30 2945

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	EP-A-0 339 855 (SONY CORPORATION) * the whole document * ---	1-10, 13, 14-19	H04R11/02 H04R9/02 H04R9/06
X	US-A-2 494 918 (VOLKERS) * column 2, line 31 - line 48; figure 2 * ---	1	
X	PATENT ABSTRACTS OF JAPAN vol. 8, no. 221 (E-271)(1658) 9 October 1984 & JP-A-59 103 498 (AKASHI SEISAKUSHO K.K.) * abstract * ---	1	
A	GB-A-469 197 (E.K. COLE LIMITED) * claim 1; figures * ---	12	
A	PATENT ABSTRACTS OF JAPAN vol. 6, no. 72 (E-105)21 January 1982 & JP-A-57 011 599 (SONY CORP) * abstract * -----	11	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H04R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 07 MAY 1992	Examiner GASTALDI G. L.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			