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(54) **Combination loudspeaker unit**

(57) A loudspeaker unit comprises, in combination, a pistonicly driven diaphragm loudspeaker and a generally planar resonant panel loudspeaker, in which the plane of the resonant panel lies in the same orientation as an axis along which the diaphragm is pistonicly driven. The resonant panel loudspeaker may be located be-

hind the diaphragm loudspeaker, with the resonant panel loudspeaker functioning as a diffuse dipole, e.g. to generate surround sound reproduction, and the diaphragm loudspeaker located in the null of the dipole and functioning as an acoustic monopole, e.g. to generate imaged stereophonic sound reproduction.

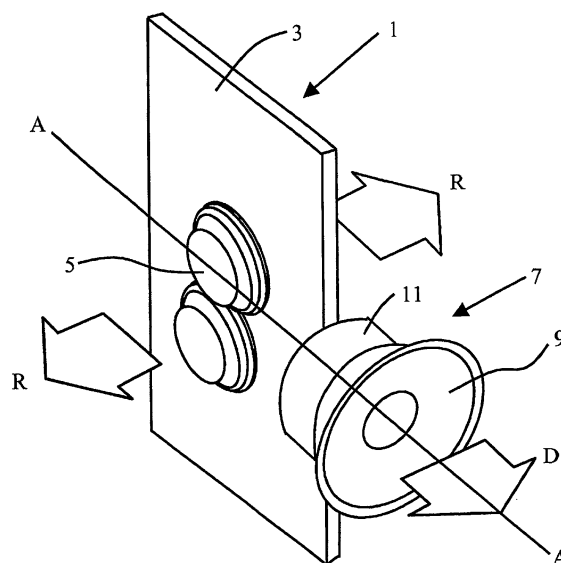


Figure 1



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 03 25 5099

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Y	DE 39 04 943 A (PFLEIDERER PETER) 20 September 1990 (1990-09-20) * abstract * * column 15, line 33 - line 41; figure 13 *	20-25	
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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 8 June 2004	Examiner Peirs, K
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	

EPO FORM 1503 03 82 (P04C01)

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