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(54) **Loudspeaker unit and assembly**

(57) A loudspeaker unit (1) comprises, in combination, a pistonic loudspeaker (9) and a resonant panel loudspeaker (3) arranged such that the resonant panel (3) is movable, for example by rotation, with respect to the pistonic loudspeaker (9). The resonant panel (3) may be movable with respect to the pistonic loudspeaker (9) between a first position (4) in which the resonant panel (3) covers the pistonic loudspeaker (9), and a second position (3) in which pistonic loudspeaker (9) is uncovered from the resonant panel (3). The resonant panel (3) may be movable by means of a motor (8), for example by remote control. A loudspeaker assembly comprising a resonant panel loudspeaker (3), a support (7) to which the resonant panel (3) is attached, and a motor (8) by which the resonant panel (3) is movable with respect to the support (7), is also disclosed. The assembly may form part of the unit (1). The assembly or unit may be attached to a wall or other boundary, for example in a recess.

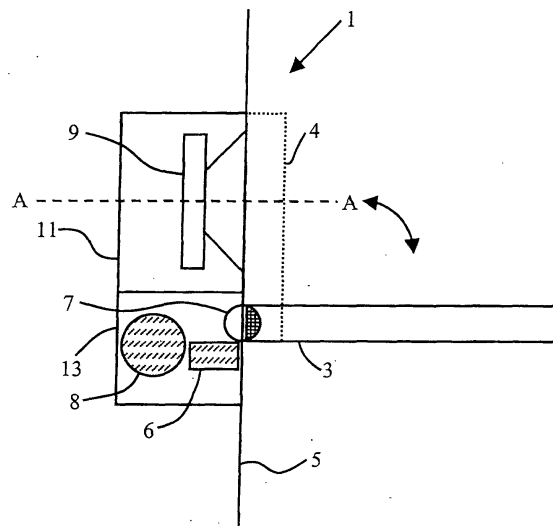


Figure 1



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EUROPEAN SEARCH REPORT

Application Number
EP 03 25 5098

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.7)
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Y	-----	1,2,9-19	
Y	WO 99/62294 A (NEW TRANSDUCERS LTD ;AZIMA HENRY (GB); HARRIS NEIL (GB)) 2 December 1999 (1999-12-02) * abstract * * page 1, line 16 - page 4, line 2 * * page 4, line 27 - page 8, line 9; figures 1-4 *	1,2,9-19	
A	WO 00/36875 A (CURTIS MERVYN STANLEY ;LONGBOTTOM SIMON ANDREW (GB); MCKAY JUSTIN) 22 June 2000 (2000-06-22) * abstract * * page 1, line 3 - line 9 * * page 2, line 18 - page 6, line 24 * * page 11, line 1 - page 12, line 8; figures 1-5 *	1-10, 16-19	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H04R
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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 15 October 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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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-11,15-19

a pistonic loudspeaker is added to the support; technical
effect: improved sound quality.

2. claims: 11-19

an electric motor is used to rotate the resonant panel;
technical effect: rotation of resonant panel is made easier
and [remotely] controllable.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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15-10-2004

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