Abstract: Sound reproduction and lighting apparatus, which is configured as a table lamp, comprises a light source (46) and a panel-form loudspeaker unit (40), at least a portion of which is transparent or translucent so that light from the light source passes therethrough in use. The light source (46) and panel-form loudspeaker unit (40) are mounted on a body (48) comprising a subwoofer enclosure (51) housing a subwoofer bass driver (50). The subwoofer enclosure (51) has an externally-mounted, tuned port (52) which supports the panel-form loudspeaker unit (40) behind a conventional lampshade (42). A reactive member may be situated between the light source (46) and the panel-form loudspeaker unit (40), the reactive member being configured to vary transmission of light passing therethrough (and hence through the panel-form loudspeaker unit) when exposed to vibrations.
**INTERNATIONAL SEARCH REPORT**

**INTERNATIONAL APPLICATION**

PCT/GB2007/000985

**A. CLASSIFICATION OF SUBJECT MATTER**

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<th>Inv.</th>
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<th>H04R1/02</th>
<th>H04R7/04</th>
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According to International Patent Classification (IPC) or to both national classification and IPC.

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

F21V H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched.

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
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<tr>
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<th>Citation of document with indication, where appropriate, of the relevant passages</th>
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<td>X</td>
<td>WO 2005/067344 A (NEW TRANSDUCERS LTD [GB]; AZIMA HENRY [GB]; HARRIS NEIL GEOFFREY [GB]); 21 July 2005 (2005-07-21) abstract page 15, line 28 - page 16, line 18; figures 6a-6d, 11</td>
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<td>US 6 443 586 B1 (AZIMA HENRY [GB] ET AL) 3 September 2002 (2002-09-03) cited in the application abstract column 2, line 33 - column 3, line 56; figures 3,4</td>
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* Special categories of cited documents

- **A** document defining the general state of the art which is not considered to be of particular relevance
- **E** earlier document but published on or after the international filing date
- **L** document which may throw doubts on prior claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- **O1** document referring to an oral disclosure, use, exhibition or other means
- **P** document published prior to the international filing date but later than the priority date claimed

**Date of the actual completion of the international search**

21 June 2007

**Date of mailing of the International search report**

13/09/2007

**Name and mailing address of the ISA/ European Patent Office P B 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nl, Fax (+31-70) 340-3016**

Authorized officer

Gerken, Stephan

Form PCT/ISA/210 (second sheet) (April 2005)
## DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>DE 199 55 867 A1 (HARMAN AUDIO ELECTRONIC SYS [DE]) 21 June 2001 (2001-06-21) abstract column 8, line 45 - line 61; figure 9</td>
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</table>
**Box II** Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [ ] Claims Nos.:
   because they relate to subject matter not required to be searched by this Authority, namely:

2. [ ] Claims Nos.:
   because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. [ ] Claims Nos.:
   because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III** Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

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see additional sheet
```

1. [ ] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:

   1-10

**Remark on Protest**

[ ] The additional search fees were accompanied by the applicant's protest.

[ ] No protest accompanied the payment of additional search fees.

Form PCT/ISA/21 0 (continuation of first sheet (2)) (January 2004)
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10

The enclosure of the sound reproduction and lighting apparatus is a compound or band-pass enclosure comprising a first chamber and a second chamber with a dividing wall therebetween in which the at least one loudspeaker drive unit is mounted, the second chamber having an external, elongate and protuberant port. This allows to provide a mini hi-fi system where a flat panel speakers and a bass speaker with external, protruding tuned port are integrated into the body of a lamp.

2. claims: 11-16

The sound reproduction and lighting apparatus comprises a reactive component or arrangement which is configured to vary transmission of light passing therethrough when exposed to vibrations. This allows to create interesting visual effects when the vibrating surface radiates sound pressure waves that create sympathetic vibrations within the reactive member.
## INTERNATIONAL SEARCH REPORT

### Information on patent family members

**International application No**

PCT/GB2007/000985

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<td>WO 2005067344 A</td>
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