Abstract: A head mounted support system for a head mounted apparatus. The apparatus includes a monocular display (3001) with a wireless communications interface, a user input device, a transmitter, receiver and a controller. The controller is configured to control the transmitter for sending and receiving control signals to and from an external device via the wireless interface. The monocular display is positioned relative to the user's dominant eye to display images to the user while occluding less than half of the user's maximum viewing space, while enabling the user to send and receive audible information or music. The head mounted support system may include an ear loop (3005, 3010), and a housing (3040a, 3040b) for storing one or more functional components of the apparatus.
(88) Date of publication of the international search report:
26 March 2009
### A. CLASSIFICATION OF SUBJECT MATTER

**INV. G02B27/01**

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)

G02B

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

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tbody>
<tr>
<td>X</td>
<td>US 6 181 304 B1 (ROBINSON JOEL [US] ET AL) 30 January 2001 (2001-01-30) column 1, line 5 - line 10 column 2, line 59 - column 3, line 21 column 4, line 43 - column 5, line 3 figures 1,3</td>
<td>1,2,7</td>
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<tr>
<td>X</td>
<td>US 5 844 656 A (RONZANI PETER A [US] ET AL) 1 December 1998 (1998-12-01) column 2, line 12 - line 14 column 3, line 39 - column 4, line 42 column 5, line 10 - line 17 figures 1,3</td>
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</tbody>
</table>

* Further documents are listed in the continuation of Box C.
* See patent family annex.

**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 priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- **O**: 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

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**X**: document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

**Y**: document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

**S**: document member of the same patent family

Date of the actual completion of the international search: 30 October 2008

Date of mailing of the international search report: 13/02/2009

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Fax. (+31-70) 340-3016

Authorized officer: Hornung, André
<table>
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Form PCT/SA/210 (continuation of second sheet) (April 2005)
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).

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

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 additional fees.

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.:

   1-3, 7, 20

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3, 7, 20

   Monocular HMD being convertible from a right eye display to a left eye display and comprising two pivots.

2. claims: 4-6, 9, 10

   Monocular HMD being convertible from a right eye display to a left eye display and comprising means for housing external components such as an audio transducer.

3. claim: 8

   Monocular HMD being convertible from a right eye display to a left eye display, wherein the cantilevered member pivots by an angle of 180 degrees.

4. claims: 11-19

   Monocular HMD being convertible from a right eye display to a left eye display and comprising a frame with two ear loops.

5. claims: 21-25

   Monocular HMD being convertible from a right eye display to a left eye display and comprising a frame with an intermediate member.

6. claims: 26-53

   Monocular HMD comprising an ear loop surrounding an ear of the wearer and supporting the display in a cantilevered manner.

7. claims: 54-58

   HMD comprising a housing connected to the display by a link.
<table>
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<th>Publication date</th>
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<td>US 6181304 B1</td>
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