Title: METHOD AND SYSTEM FOR MAINTAINING OPERATOR ALERTNESS

Abstract: A method and system for maintaining operator alertness comprises a detector (10) for detecting a physical status of an operator. The physical status indicates a first level of operator alertness. A user interface (16) requests a second level of operator alertness from a self-evaluation of the operator at a request time. An evaluator (24) measures at least one of an accuracy of the operator response to the requested input and a response time of the operator from the request time. An alert module (19) generates alarm data or an alarm signal to alert the operator based on the first level of operator alertness indicating an inattentive state and at least one of the measured accuracy and operator response time indicating the inattentive state.

Fig. 1
Published: with international search report

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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(8) - G08B 23/00 (2008.04)
   USPC - 340/575
   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)
   IPC(8) - G08B 23/00 (2008.04)
   USPC - 340/575

   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 practicable, search terms used)
   USPTO EAST System (US, USPG-PUB, EPO, DERWENT), PatBase

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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>4, 8, 9, 15, 18, 19, 22</td>
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<tr>
<td>Y</td>
<td>US 6,313,749 B1 (HORNE et al) 06 November 2001 (06.11.2001) entire document</td>
<td>4, 15</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,147,612 A (RUAN et al) 14 November 2000 (14.11.2000) entire document</td>
<td>8, 9, 16, 19, 22</td>
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</table>

☐ Further documents are listed in the continuation of Box C.

☐ "A" document defining the general state of the art which is not considered to be of particular relevance

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☐ "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)

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Date of the actual completion of the international search
13 November 2008

Date of mailing of the international search report
25 NOV 2005

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