METHOD AND APPARATUS FOR TESTING AND TRAINING COGNITIVE ABILITY

STEP 10
ANALYZE THE PCS OF THE USER, SEPARATING EACH PCS INTO SMALL COGNITIVE COMPONENTS.

STEP 12
BASED ON ANALYSIS OF EACH COGNITIVE COMPONENT, CUSTOMIZE THE TESTING AND THE TRAINING TO THE PERFORMANCE LEVEL OF THE USER, CHOOSING THE APPROPRIATE TASKS AND ASSOCIATED DIFFICULTY LEVELS.

STEP 14
GENERALLY PILOTFOCITING A COGNITIVE ELEMENT, OR COMPONENT.

STEP 16
PRESENT A SELECTED TASK.

STEP 18
SYSTEMATICALLY PRESENTING A SERIES OF TASKS EACH TASK DIFFERING FROM THE OTHERS BY ONE ELEMENT.

STEP 20
EACH TASK, AND THE RESPONSES THERETO, MAY BE ANALYZED.

STEP 22
EACH FOLLOWING TASK MAY BE SELECTED TO BUILD-ON TO, OR TO REFINISH, THE PREVIOUS TASK OR RESPONSE.

STEP 24
THE TASKS MAY BE GROUPED TO PROVIDE CLUSTER ANALYSIS THAT FOCUSES ON THE ELEMENTS THAT ARE SIMILAR OR DIFFER, WITHIN THE CHOSEN CLUSTER.

STEP 26
EXTRAPOLATE ONE OR MORE COGNITIVE ELEMENTS.

STEP 28
EXTRAPOLATED COGNITIVE ELEMENTS MAY THEN BE FOCUSED ON FOR FURTHER TESTING, OR IF NECESSARY, FOR TRAINING.

Abstract: A method for testing and/or training cognitive ability (step 10 - step 506), including the steps of testing a preliminary cognitive level of a user (step 10) and receiving results representative therefrom (step 12). According to the results, the cognitive level may then be broken up into separate discrete cognitive skills (step 14), and one or more tasks may then be created (step 18), each task related to each of the discrete cognitive skills. The one or more tasks may then be presented to the user and so that a current cognitive level (step 20) of the user is re-tested, and results representative therefrom are received. This process may be repeated at least one time (step 408).
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): A61B 5/00
US CL: 600/300

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)
U.S.: 600/300-301, 558; 128/920; 434/65; 705/2-3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST 2.0

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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<tr>
<td>X</td>
<td>US 5,344,324 A (O’DONNELL et al.) 06 SEPTEMBER 1994, see entire document</td>
<td>1-9, 11-26, 28-35</td>
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<td>A, P</td>
<td>US 6,113,538 A (BOWLES et al.) 05 SEPTEMBER 2000, see entire document</td>
<td>1, 17, 26</td>
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<td>X, P</td>
<td>US 6,227,862 B1 (HARKNESS) 08 MAY 2001, see entire document</td>
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Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search: 21 October 2001 (21.10.2001)
Date of mailing of the international search report: 03 JAN 2002

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