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G09B 5/06 (2006.01) G06Q 50/20 (2012.01)

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(81) Designated States (unless otherwise indicated, for every kind of national protection available):

AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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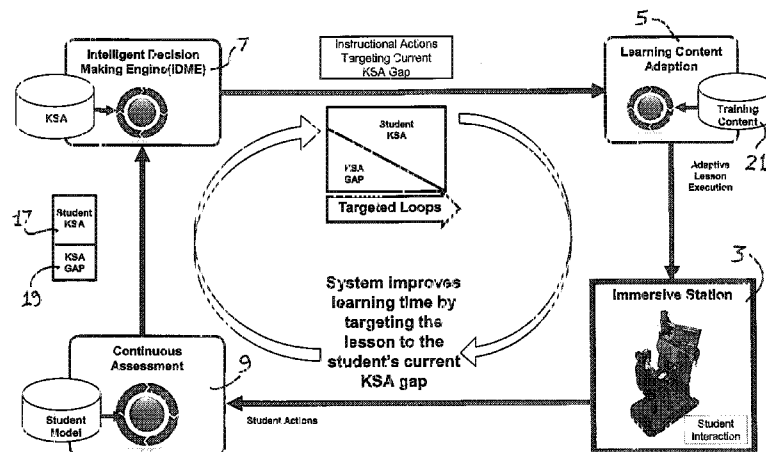
- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

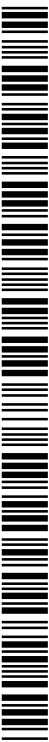
25 April 2013

(54) Title: ADAPTIVE TRAINING SYSTEM, METHOD AND APPARATUS

LinkPod Targeted Student Learning



(57) Abstract: A system and method for training a student employ a simulation station that displays output to the student and receives input. The computer system has a rules engine operating on it and computer accessible data storage storing (i) learning object data including learning objects configured to provide interaction with the student at the simulation system and (ii) rule data defining a plurality of rules accessed by the rules engine. The rules data includes, for each rule, respective (a) if-portion data defining a condition of data and (b) then-portion data defining an action to be performed at the simulation station. The rules engine causes the computer system to perform the action when the condition of data is present in the data storage. For at least some of the rules, the action comprises output of one of the learning objects so as to interact with the student.



A. CLASSIFICATION OF SUBJECT MATTER*G09B 9/00(2006.01)i, G09B 5/06(2006.01)i, G09B 19/00(2006.01)i, G06Q 50/20(2012.01)i*

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)

G09B 9/00; G09B 15/00; G06F 15/20; G09B 9/34; G06Q 50/20; G06N 5/02

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & keywords: training, student, 학생, 교육 장치, 가상 교육, rule date, learning object, if-portion data, then-portion data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2002-0030305 A (K. L. C. INTERNET EDUCATION BROADCASTING. INC.) 25 April 2002	1
A	See abstract; figures 1, 2; and claims 1-4, 7.	2,3,8-10
A	WO 2010-083563 A1 (HOGAN, B.) 29 July 2010. See abstract and claim 1.	1-3,8-10
A	US 2006-0195412 A1 (SLEMMER et al.) 31 August 2006. See abstract and claim 1.	1-3,8-10
A	KR 10-2002-0090751 A (NEOEDU CO.) 5 December 2002. See abstract; and claims 1, 5.	1-3,8-10
A	EP 0483991 A2 (HUGHES AIRCRAFT COMPANY) 06 May 1992. See abstract and claim 1.	1-3,8-10

 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 application or patent 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 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

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"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

"&" document member of the same patent family

Date of the actual completion of the international search

22 FEBRUARY 2013 (22.02.2013)

Date of mailing of the international search report

25 FEBRUARY 2013 (25.02.2013)

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Box No. 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.: 14
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:

Claim 14 refers to a multiple dependent claim that refers to other multiple dependent claims. Therefore, the meaning of the technical feature to which it refers is vague and unclear.

3. Claims Nos.: 4-7,11-13
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. 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:

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.:

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/053700

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-2002-0030305 A	25.04.2002	None	
WO 2010-083563 A1	29.07.2010	AU 2010-206494 A1 CA 2751382 A1 CN 102317991 A EP 2380156 A1 JP 2012-515932 A KR 10-2011-0127644 A US 2011-0283866 A1	29.07.2010 29.07.2010 11.01.2012 26.10.2011 12.07.2012 25.11.2011 24.11.2011
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KR 10-2002-0090751 A	05.12.2002	None	
EP 0483991 A2	06.05.1992	CA 2052147 A1 CA 2052147 C DE 69123819 D1 DE 69123819 T2 EP 0483991 A3 EP 0483991 B1 IL 99590 A JP 02502861 B2 JP 04264589 A KR 10-1995-0006297 B1 KR 95-0006297 B1 US 05287489 A	01.05.1992 28.01.1997 06.02.1997 24.07.1997 27.01.1993 27.12.1996 30.05.1994 13.03.1996 21.09.1992 13.06.1995 13.06.1995 15.02.1994