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[Continued on next page]

(54) Title: SYSTEMS AND METHODS OF OBJECT RECOGNITION WITHIN A SIMULATION

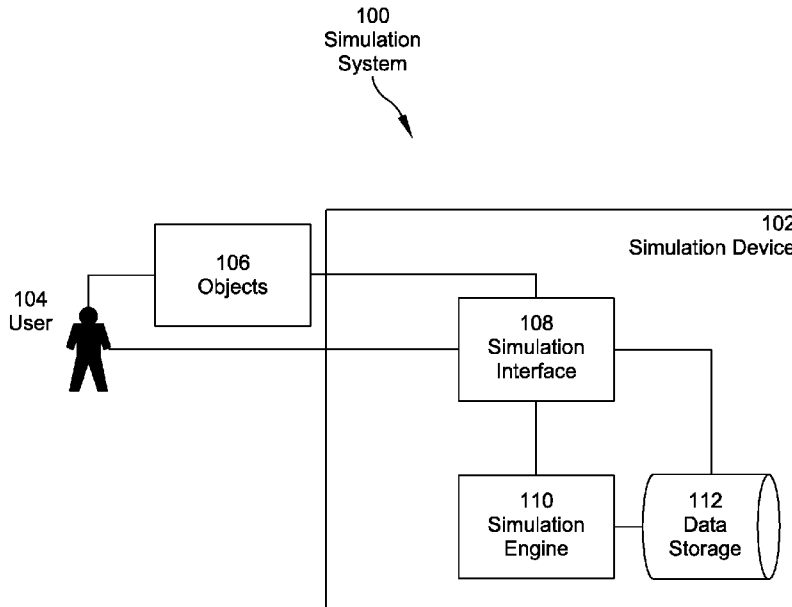


FIG. 1

(57) Abstract: According to another embodiment, a system configured to execute at least one simulation is provided. The system includes a memory, a touch screen, at least one processor coupled to the memory and the touch screen, and a simulation component executed by the at least one processor. The simulation component is configured to detect a manipulation of at least one object disposed on the touch screen, determine a degree of compliance of the manipulation to rules of the at least one simulation, and communicate a characterization of the degree of compliance to an external entity.

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MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 3/041 (2013.01)

USPC - 345/173

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) - A63F 13/00; G06F 3/041, 3/042 (2013.01)

USPC - 345/173, 175; 463/43

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - A63F 13/00; G06F 3/041, 3/042 (2013.01)

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

Google, Orbit, Google Patents

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/0231611 A1 (BATHICHE et al) 25 September 2008 (25.09.2008) entire document	1, 5, 17
Y		2, 3, 4, 6-12, 18-21
Y	US 2007/0066403 A1 (CONKWRIGHT) 22 March 2007 (22.03.2007) entire document	3, 4, 18-21
Y	US 2010/0026642 A1 (KIM et al) 04 February 2010 (04.02.2010) entire document	6-12, 20, 21
Y	US 2011/0129064 A1 (FOLAND) 02 June 2011 (02.06.2011) entire document	2
A	US 20080136786 A1 (LANFERMANN) 12 June 2008 (12.06.2008) entire document	1-12, 17-21
A	LYUHS. LG interactive table.AVI. 04 February 2010. [retrieved on 2013-10-30]. Retrieved from the Internet:<URL:http://www.youtube.com/watch?v=Po7Eyvvg6io >. entire document.	1-12, 17-21
A	LAM. Multitouch Table show interactive menu. 02 June 2010. [retrieved on 2013-10-30]. Retrieved from the Internet:<URL:http://www.youtube.com/watch?v=b5C_7T2EhSk >. entire document.	1-12, 17-21

 Further documents are listed in the continuation of Box C.

* 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 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

"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

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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.:
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 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:

See Extra 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 additional fees, 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.:
1-12, 17-20

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 application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-12, 17-20, drawn to a system and a method for conducting/executing a simulation.

Group II, claims 13-16, drawn to an object fabricated from a material that can be detected by a simulation system.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: a system and a method for conducting/executing a simulation comprising determining a degree of compliance of a manipulated object to rules and communicating a characterization of the degree of compliance as claimed therein is not present in the invention of Group II. The special technical feature of the Group II invention: an object fabricated from a material that can be detected by a simulation system as claimed therein is not present in the invention of Groups I.

Groups I and II lack unity of invention because even though the inventions of these groups require the technical feature of a simulation system that detects an object, this technical feature is not a special technical feature as it does not make a contribution over the prior art in view of US 2008/0231611 A1 (BATHICHE et al) 25 September 2008 (25.09.2008), abstract, paragraphs 12-14, 53-56, Figure 7.

Since none of the special technical features of the Group I or II inventions are found in more than one of the inventions, unity of invention is lacking.