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(54) **Title:** SYSTEM AND METHOD FOR PROVIDING RECURSIVE FEEDBACK DURING AN ASSEMBLY OPERATION

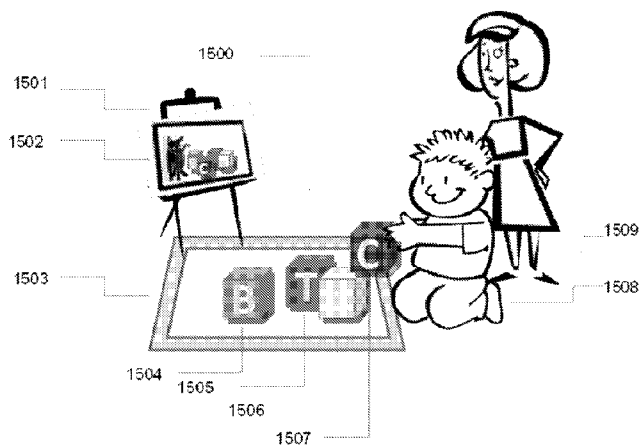


Figure 15

(57) **Abstract:** The present invention relates to a system and method that includes a camera, a display and a processor wherein the camera captures a series of environmental images of an object, device or structure as the object, device or structure is assembled or constructed and then environmental images are compared with a reference image. In exemplary embodiments, a reference standard image is displayed and, a user proceeds to manipulate objects to try to conform to the displayed referenced image. Next, environmental images are captured and a processor then compares the detected images against the reference standard and provides feedback to the user in the form of output that reflects compliance with the standard or a deviation from the standard. The feedback is provided, *inter alia* on a display panel so that the user can either confirm that the assembly is in conformance with the standard or see a graphical representation of how the assembly deviates from the standard. The present invention may be used as a teaching and instructional device, can be used as device to ensure quality control during manufacturing or assembly operations and may be used as an amusement device.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER <i>G06F 3/0488 (2013.01)</i> <i>A63F 13/00 (2006.01)</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) G06F 3/00, 3/01, 3/048, 3/0487, 3/0488, 17/00, A63F 9/00, 9/24, 13/00, H04B 1/00, 1/38, 1/40, H04N 5/00, 5/222, 5/225, 5/262 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) PAJ, Esp@cenet, DWPI, PCT Online, USPTO DB, CIPO (Canada PO), SIPO DB, RUPAT, RUABRU, RUABEN, RUPAT_OLD, RUABU1		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/0098109 A1 (DISNEY ENTERPRISES) 28.04.2011 abstract, paragraphs [0021] - [0027], [0029], [0035]	1 - 3, 5-10, 20, 22-23, 31-33
Y		4, 11-19, 21, 24, 26-27
A		25, 28-30, 34-40
Y	US 2008/0167102 A1 (FUJI XEROX CO., LTD.) 10.07.2008, paragraphs [0045] – [0049]	12, 21
Y	US 2011/0202834 A1 (MICROSOFT CORPORATION) 18.08.2011, paragraphs [0186], [0192]	4, 11, 13
Y	US 2011/0195774 A1 (CHRISTOPHER GERDING) 11.08.2011, paragraphs [0024] - [0033]	15-19
☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.		
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2011/0111846 A1 (PETER CIARROCCHI) 12.05.2011, paragraph [0055]	24, 26, 27
Y	WO 2010/096191 A2 (EXBIBLIO B.V. et al.) 26.08.2010, paragraph [0045]	14