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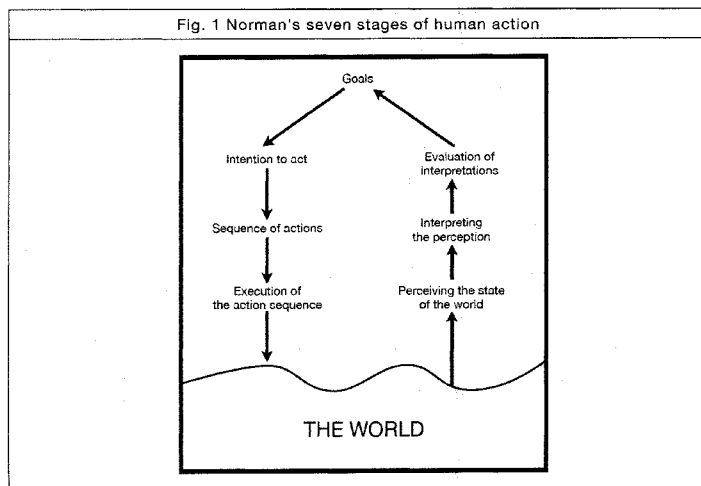
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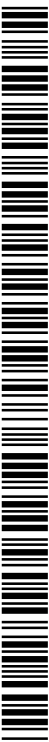
- with international search report (Art. 21(3))
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(54) Title: METHOD AND MECHANISM FOR HUMAN COMPUTER INTERACTION



(57) Abstract: The method provides a method and engine for human-computer interaction (HCI) on a graphical user interface (GUI). The method includes the step of tracking the position and/or movement of a user's body or part of it relative to and/or with an input device in a control space, facilitating human-computer interaction by means of an interaction engine and providing feedback to the user in a sensory feedback space. Facilitation includes the steps of: establishing a virtual interaction space(vIS); establishing and referencing one or more virtual objects with respect to the interaction space; establishing and referencing one or more focal points in the interaction space in relation to the tracked position and/or movement in the control space; applying one or more mathematical functions or algorithms to determine the interaction between one or more focal points and the virtual objects in the interaction space, and/or to determine one or more commands to be executed; and applying a mathematical function or algorithm to determine what content of the interaction space is to be presented to the user as feedback, and in which way the content is to be displayed.



# INTERNATIONAL SEARCH REPORT

International application No PCT/ZA2013/000042
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. G06F3/01                      G06F3/048 ADD.				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) G06F				
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)  EPO-Internal				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 2010/302015 A1 (KIPMAN ALEX [US] ET AL) 2 December 2010 (2010-12-02) abstract paragraphs [0003], [0004] paragraphs [0017] - [0031]; figures 1A,1B paragraphs [0032] - [0042]; figure 2 paragraphs [0043] - [0063]; figures 3A,3B paragraphs [0064] - [0069]; figure 4A paragraphs [0070] - [0078]; figures 5A,5B paragraphs [0084], [0085]; figure 7 paragraphs [0086] - [0092]; figure 8 paragraph [0100] - paragraph [0112]; figure 9	1-64		
X	----- US 2011/107216 A1 (BI NING [US]) 5 May 2011 (2011-05-05) the whole document ----- -/--	1-64		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.				
* Special categories of cited documents :  <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;">                     "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                 </td> <td style="width: 50%; border: none; vertical-align: top;">                     "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                      "&amp;" document member of the same patent family                 </td> </tr> </table>			"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
"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  20 February 2014		Date of mailing of the international search report  26/02/2014		
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer  Valin, Steven		

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International application No PCT/ZA2013/000042
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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.
X	US 2002/041327 A1 (HILDRETH EVAN [CA] ET AL) 11 April 2002 (2002-04-11) the whole document	1-64
X	----- US 2009/077504 A1 (BELL MATTHEW [US] ET AL) 19 March 2009 (2009-03-19) the whole document -----	1-64

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Information on patent family members

International application No PCT/ZA2013/000042
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