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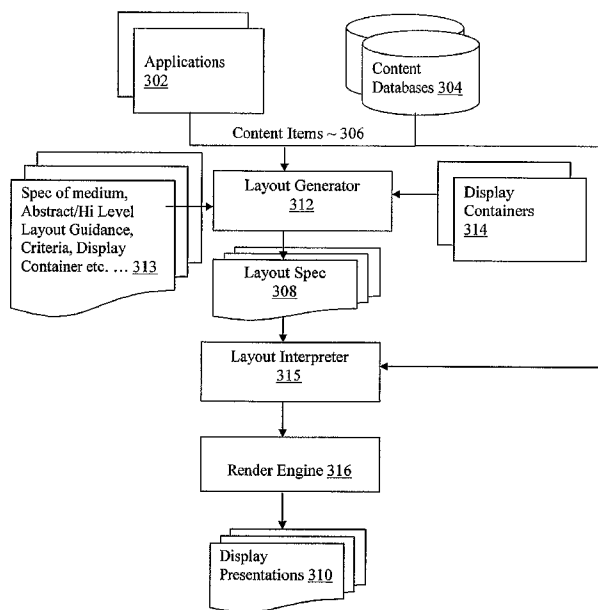
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[Continued on next page]

(54) Title: DISPLAY/LAYOUT METHODS AND APPARATUSES INCLUDING CONTENT ITEMS AND DISPLAY CONTAINERS



(57) Abstract: Methods and apparatuses for generating layout specifications with layout generator (312) for content items to be rendered, using display containers (314), and/or rendering the content items using the generated rendering layout specification are disclosed. In various embodiments, the generating of a rendering layout specification may include one or more of selecting a display container for a content item, selecting a content item for a display container (314), and selecting a display container for a display container.

WO 2006/055751 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

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19 April 2007

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/41760

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **G06F 15/00** (2006.01)

USPC: 715/517  
 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. : 715/517

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)  
 ACM, Google

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LOK et al., A Survey of Automated Layout Techniques for Information Presentations, pages 61-68, 2001.	1-22, 25-30
Y, P	US 2005/0108711A (ARNOLD et al.) 19 May 2005 (19.05.2005), [0041].	24
X, E	US 7,028,255 B1 (AYERS) 11 April 2006 (11.04.2006), figure 4, col 3, line 34 to col 4, line 31.	1, 29-30
A	US 5,181,162 A (SMITH et al.) 19 Januray 1993 (19.01.1993), all.	1-30
A	US 5,323,312 A (SAITO et al.) 21 June 1994 (21.06.1994), all.	1-30
A	PATTISON et al., Information Visualisation Using Composable Layouts and Visual Sets, 2001 Google, pages 1-10.	1-30
A	HAREL et al., An Algorithm for Blob Hierarchy Layout, ACM 2000, pages 29-40.	1-30

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"T"
"A" document defining the general state of the art which is not considered to be of particular relevance	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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 28 September 2006 (28.09.2006)	Date of mailing of the international search report <b>06 FEB 2007</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer <i>Cong-Lac Huynh</i> Cong-Lac Huynh Telephone No. 571-272-4125

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/41760

## 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.: 23  
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:  
it is unclear why to perform such ordering
  
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:

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 any 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.:
- 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.