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- with international search report (Art. 21(3))
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8 January 2015

(54) Title: SCALABLE NAVIGATION SLIDER

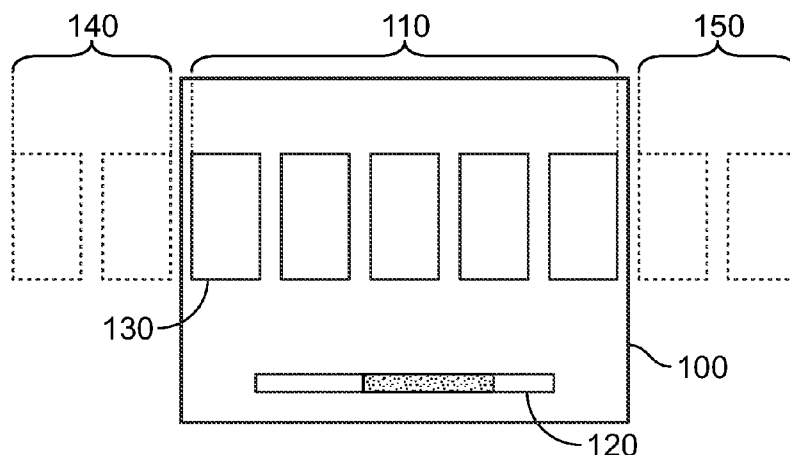


FIG. 1

(57) Abstract: Exemplary embodiments of a method and system are provided for a navigation system that can allow a user to quickly browse a large number of records. The navigation methods and systems of the exemplary embodiments of the present disclosure can provide a navigation of a plurality of titles by providing one or more displayed titles in a sequence on a gallery of a viewer of an electronic device, temporarily storing a plurality of titles in one or more buffers that sequentially follow or precede the one or more displayed titles, and storing titles provided to the one or more buffers in a memory.



INTERNATIONAL SEARCH REPORT

47030400 07.11.2014

International application No.

PCT/US14/30460

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 3/048 (2014.01)

USPC - 715/810

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) Classification(s): G06F 3/048, 17/00; G06T 11/00; H04N 7/15 (2014.01)

USPC Classification(s): 700/131; 345/582; 715/788, 810; CPC Classification(s): G06F 3/0481, 9/4443; G09G 5/14

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)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); ProQuest; IEEE/IEEEExplore; Google/Scholar: web, scalable, navigation, slider, multiple titles, plurality titles, multiple pictures, plurality pictures, sequence, gallery, viewer, display, first size, second size, third size, stack, carousel

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2006/0069997 A1 (HSIEH, K et al.) March 30, 2006; abstract; figure 3; paragraphs [0008], [0009], [0025]-[0028].	1-4, 6-19, 20-24 ----- 5
Y	US 2006/0117339 A1 (LESENNE, L et al.) June 01, 2006; abstract; paragraphs [0118], [0119], [0130].	5
A	US 2011/0202877 A1 (LASSONDE, C et al.) August 18, 2011; entire document.	1-24
A	US 2006/0048076 A1 (VRONAY, D et al.) March 02, 2006; entire document.	1-24

☐ 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

14 October 2014 (14.10.2014)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US14/30460

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:

Group I: Claims 1-9 and 19-20; Group II: Claims 10-18 and 21-24

-Please see Supplemental Page-

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.:

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

47030400 07.11.2014

International application No.

PCT/US14/30460

-Continued from Box No. III - Observations where unity of invention is lacking-

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 fee must be paid.

Group I: Claims 1-9 and 19-20 are directed toward providing a serpentine navigation of a plurality of titles.

Group II: Claims 10-18 and 21-24 are directed toward providing a navigation of plurality of titles.

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 features of Group I include a serpentine navigation of a plurality of titles, comprising: providing a main stack of titles of a first size; providing a first proceeding stack of titles containing one or more titles of a second size, the second size being smaller than the first size; and providing a first preceding stack of titles containing one or more titles of a third size that precede the sequence of the main stack, the third size being smaller than the first size, which are not present in Group II.

The special technical features of Group II include one or more buffers for temporarily storing one or more titles; and a cache configured to store titles and provide them to a viewer that are not stored in memory, which are not present in Group I.

The common technical feature shared by Groups I-II is a method and a computer-accessible medium having instructions thereon for providing a navigation of a plurality of titles, comprising: one or more titles that sequentially follow or precede one or more titles displayed on an electronic device.

However, this common feature is previously disclosed by US 20110131531 A1 (RUSSELL et al.). Russell et al. disclose a method and a computer-accessible medium having instructions thereon for providing a navigation of a plurality of titles (touch interface in which users are able to flick or scroll and view the contents of their applications; Abstract and Figure 4), comprising: one or more titles that sequentially follow or precede one or more titles displayed on an electronic device (Figure 4).

Since the common technical feature is previously disclosed by the Russell et al. reference, this common feature is not special and so Groups I-II lack unity.