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(54) **Title:** FILTER CHAINS WITH ASSOCIATED VIEWS FOR EXPLORING LARGE DATA SETS

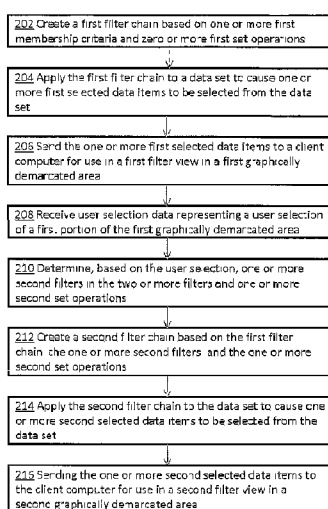


FIG. 2

(57) **Abstract:** In an embodiment, a filter chain object comprising an association of a starting set of data items and two or more filter links is created and stored in computer memory. Each of the filter links comprises a component object that associates a set operation and a membership criterion. Each of the filter links is associated with a particular filter view among a plurality of filter views. Each particular filter view comprises a graphical representation of a state of applying the membership criterion of the associated filter link to a subset of data resulting from filtering the starting set of data items according to zero or more preceding filter links.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2009/056705

## A. CLASSIFICATION OF SUBJECT MATTER

**G06F 17/00(2006.01)i, G06F 17/30(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)

IPC 8 : G06F 3/00, G06F 17/00, G06F 17/30, G06F 15/173, H04Q 5/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

(Chinese Patents and application for patent)

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

eKOMPASS(KIPO internal) : "criterion and graphical and link and data and filter"

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                | Relevant to claim No. |
|-----------|---|-----------------------|
| A         | US 2007-0226617 A1 (KENNETH R. TRAUB et al.) 2007.09.27.<br>see abstract; claims 1-5; figs.5a-5h. | 1-55                  |
| A         | EP 1109116 A1 (SUN MICROSYSTEMS, INC.) 2001.06.20.<br>see abstract; figs.3-5.                     | 1-55                  |
| A         | US 2003-0184588 A1 (JUHNYOUNG LEE) 2003.10.02.<br>see abstract.                                   | 1-55                  |

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* 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

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"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

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Information on patent family members

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| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| US 2007-0226617 A 1                       | 27.09.2007          | None                       |                     |
| EP 1109116 A 1                            | 20.06.2001          | US 2001-0003455 A 1        | 14.06.2001          |
| US 2003-0184588 A 1                       | 02.10.2003          | US 07284204 B2             | 16.10.2007          |