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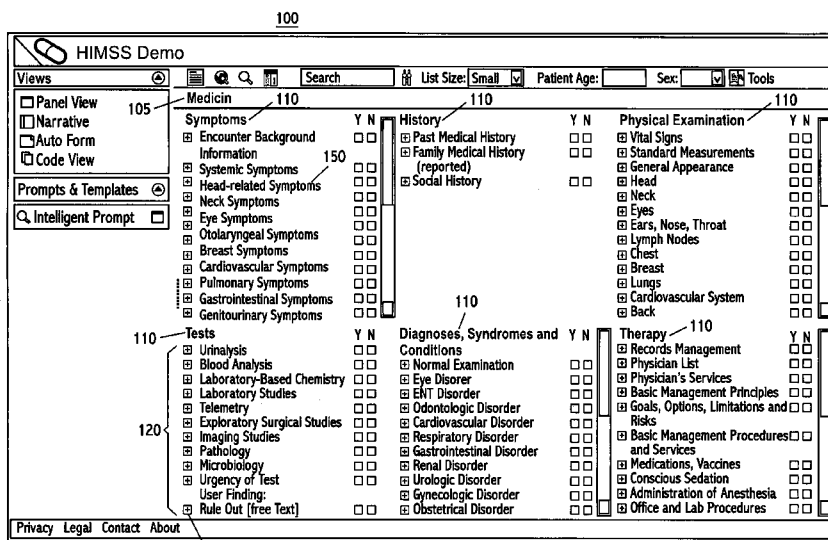


FIG. 1

(57) Abstract: Disclosed are methods and systems for displaying data elements in hierarchical databases in multiple frames. The method includes assigning attributes to data elements and sub-data elements in a hierarchical database. The data elements and sub-elements are in a parent-child relationship. The method further includes distributing a portion of the data elements in the database for display based on the attribute assigned to the distributed data elements and sub-data elements and displaying the distributed data elements and sub-data elements to a user by configuring a display in a plurality of individual frames. Individual frames of the plurality of frames are configured to display both distributed data elements and sub-data elements having related attributes simultaneously. The system includes hardware and software to carry out the method.

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INTERNATIONAL SEARCH REPORT

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PCT/US2008/001108**A. CLASSIFICATION OF SUBJECT MATTER***G06F 9/06(2006.01)i, G06F 3/14(2006.01)i, G06F 15/00(2006.01)i*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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

Korean Utility models applications for Utility Models since 1975, IPC as above

Japanese Utility Models and application for Utility Models since 1975, IPC as above

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

eKOMPASS, IEEEExpl, Google; multi, plural, frame, category, display;

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,961,731 B2 (DAVID M. HOLBROOK.) 1 Nov. 2005 See the abstract, claims 1-15 and figures 1-34.	1-5
A	US 2006-0041549 A1 (MATTHEW A. GUNDERSEN, et al.) 23 Feb. 2006 See the abstract, claims 1-29 and figures 1-9.	1-5
A	US 2006-0101330 A1 (HECTOR STUART GODLEY.) 11 May. 2006 See the abstract,, claims 1-22 and figures 1-8.	1-5

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

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