

EXHIBIT 4



US005832495A

United States Patent [19]

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Gustman

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[54] **METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA**

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[73] **Assignee:** Survivors of the Shoah Visual History Foundation, Los Angeles, Calif.

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[51] **Int. Cl.⁶** G06F 17/30

[52] **U.S. Cl.** 707/102; 707/104

[58] **Field of Search** 395/60, 61, 62; 707/102, 104

5,414,644	5/1995	Scaman et al.	395/551.01
5,428,774	6/1995	Takahashi et al.	395/612
5,461,611	10/1995	Drake, Jr. et al.	370/420
5,493,677	2/1996	Balogh et al.	395/615
5,515,490	5/1996	Buchanan et al.	345/302
5,608,900	3/1997	Dockter et al.	395/613
5,615,112	3/1997	Sheng et al.	395/615
5,617,119	4/1997	Briggs et al.	395/611
5,630,121	5/1997	Braden-Harder et al.	395/604
5,630,125	5/1997	Zellweger	395/614
5,682,330	10/1997	Seaman et al.	364/551.01
5,724,605	3/1998	Wissner	395/806

Primary Examiner—Wayne Amsbury
Attorney, Agent, or Firm—Hecker & Harriman

[57] **ABSTRACT**

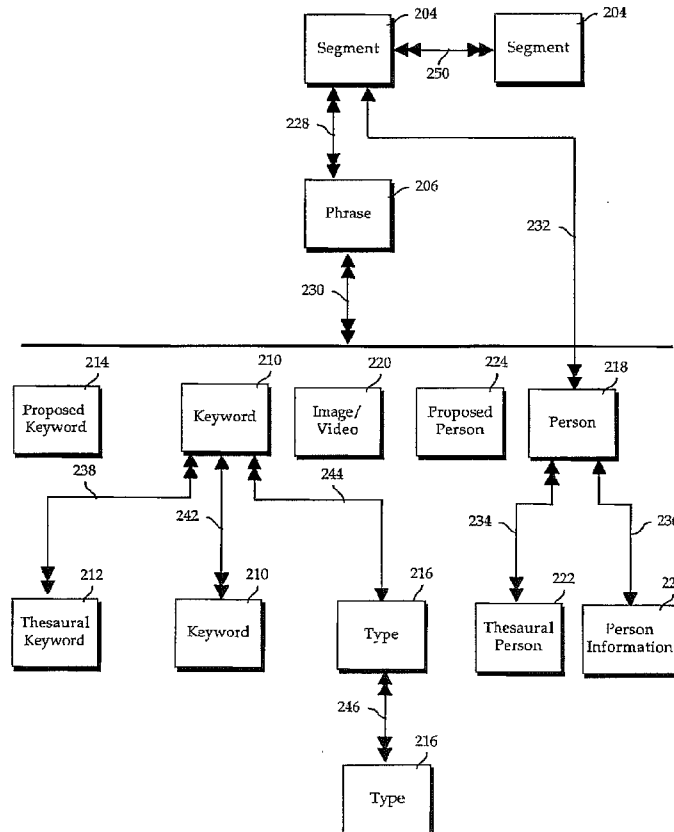
The invention catalogues data such as multimedia data. A catalogue is a collection of one or more catalogue elements. An index is used to access a catalogue. An element of a catalogue has one or more attributes. An attribute provides information that can be used to search for, answer questions about, and navigate through a catalogue. An attribute of a catalogue element can be an element that has attributes. A catalogue element attribute that is an element is referred to as an attribute element. Attribute elements and attributes are used to build an index that can be used to facilitate catalogue access. Within a catalogue, smaller catalogues can be created by, for example, querying and user designation.

29 Claims, 34 Drawing Sheets

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,119,474	6/1992	Beitel et al.	395/807
5,121,470	6/1992	Trautman	395/140
5,123,088	6/1992	Kasahara et al.	395/357
5,210,868	5/1993	Shimada et al.	395/615
5,241,671	8/1993	Reed et al.	395/615
5,274,758	12/1993	Beitel et al.	395/807
5,278,946	1/1994	Shimada et al.	395/62
5,280,573	1/1994	Kuga et al.	395/338
5,303,296	4/1994	Zucker	379/67
5,404,506	4/1995	Fujisawa et al.	395/604
5,408,655	4/1995	Oren et al.	395/601



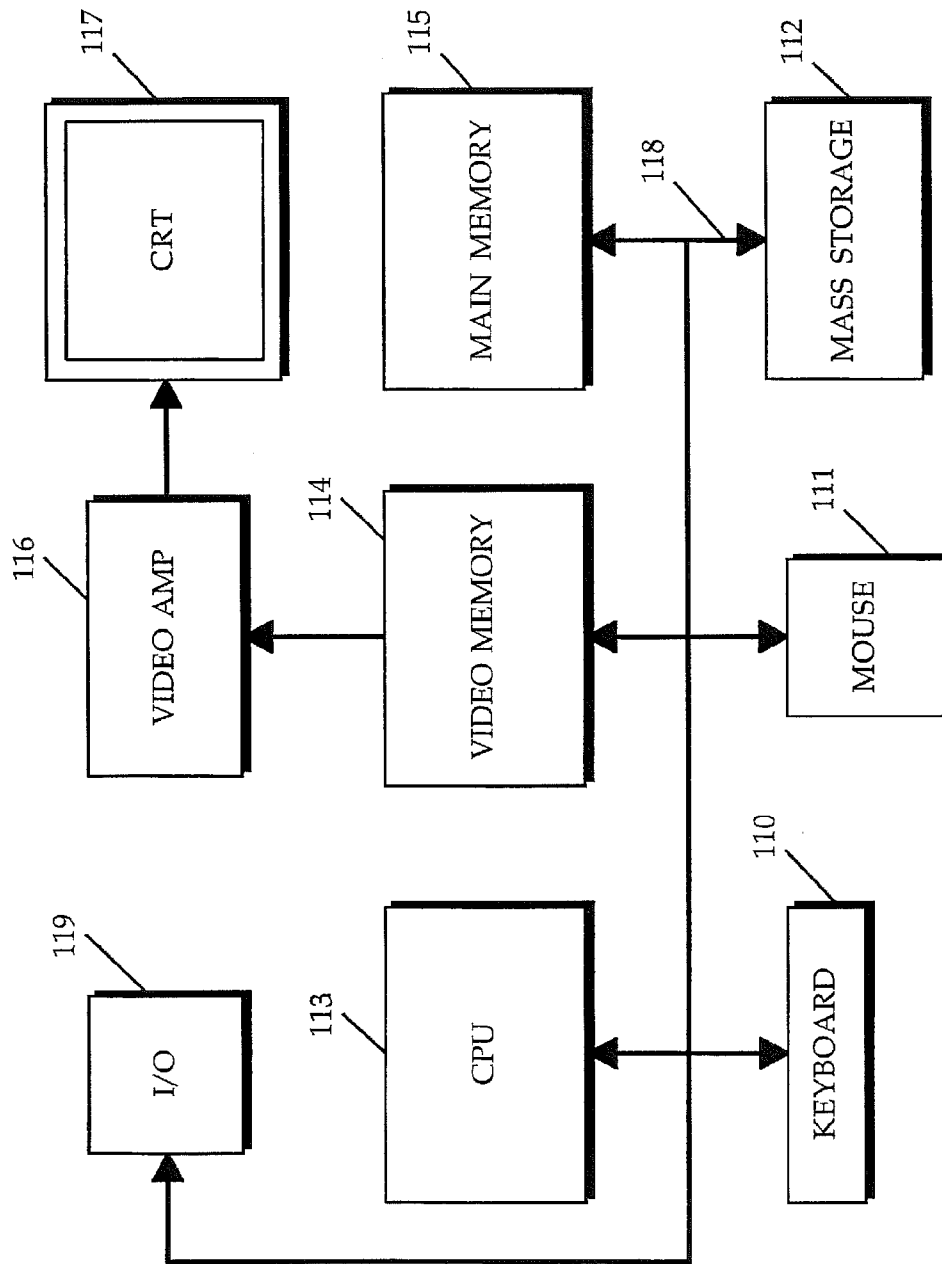


Figure 1

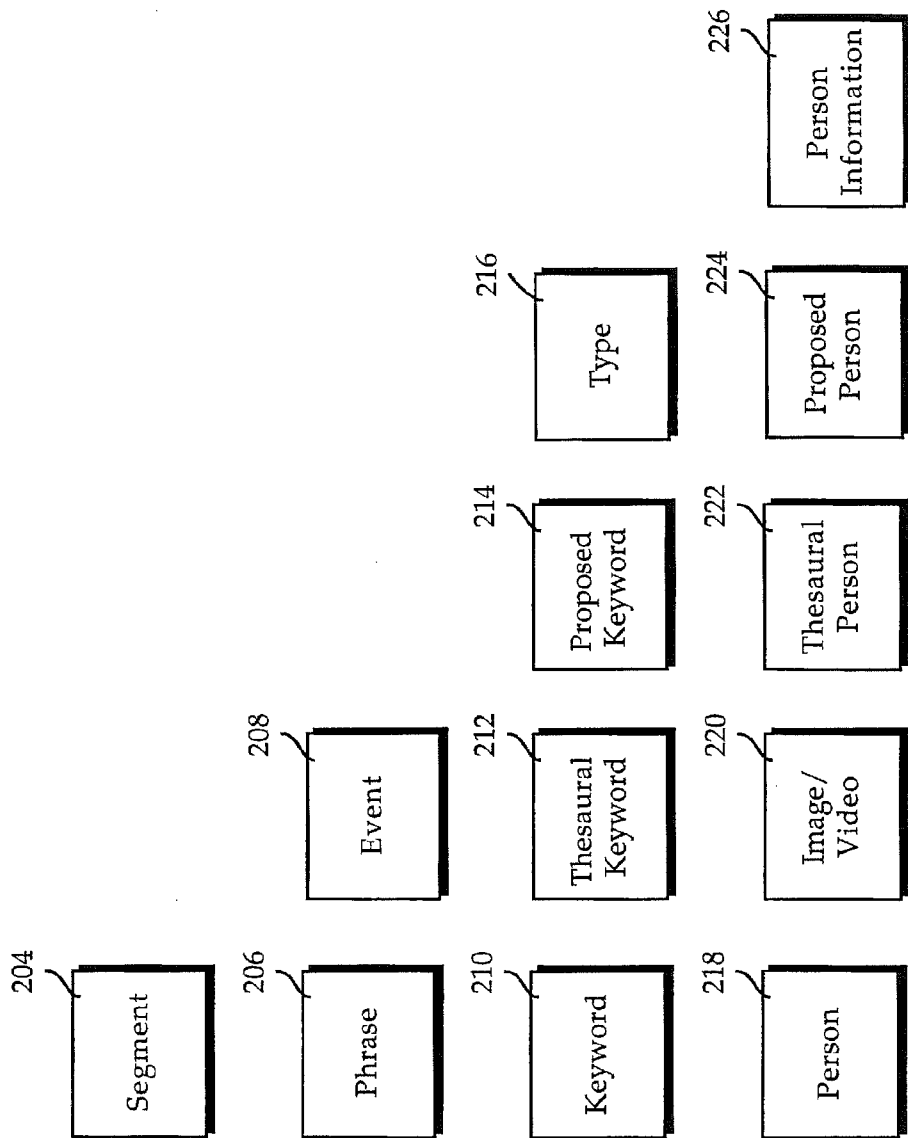


Figure 2A

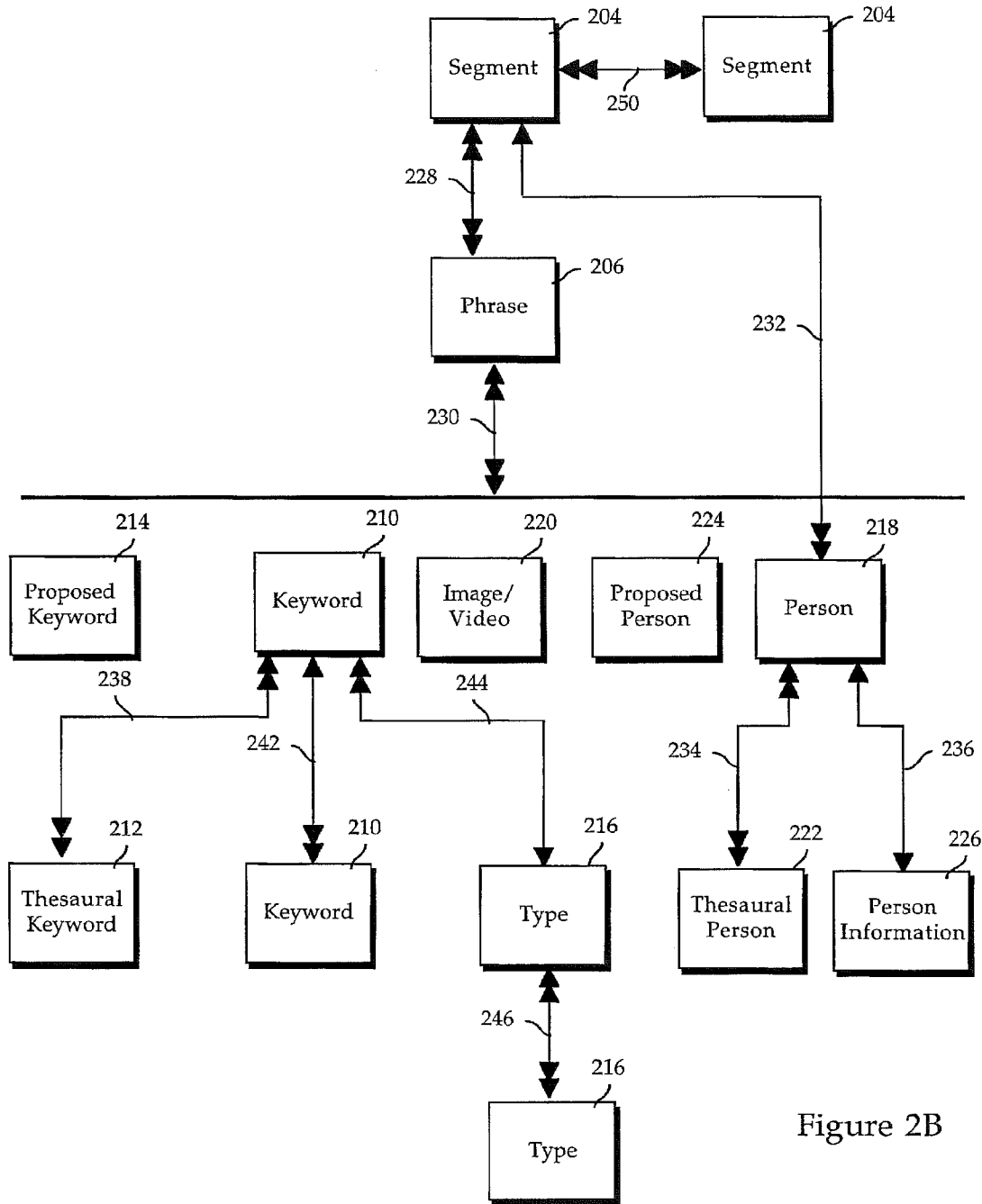


Figure 2B

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