FILE HISTORY US 6,574,638

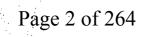
PATENT:	6,574,638
INVENTORS:	Gustman, Samuel
	DeLury, Barbara
TITLE:	Method and apparatus for cataloguing multimedia data using surveying data
APPLICATION NO:	US2000659987A
FILED:	12 SEP 2000
ISSUED:	03 JUN 2003
COMPILED:	

jc853 U.S. PTO		フレフ (ひく、) Class Subclass	ISSUE CLASSIFICATION		<u>D</u>			PATENT NUMBER 6574638 6574638
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		TION NO. 659987	CONT/PRIOR	CLASS 707	SUBCLASS	ART UNIT	EXAMINER	mizvalu
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FERMINAL	DRAWINGS	CLAIMS ALLOWED
DISCLAIMER	Sheets Drwg. Figs, Drwg. Print Fig	Total Claims Print Claim for O.G.
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The term of this patent		NOTICE OF ALLOWANCE MAILED
subsequent to (date)		
has been disclaimed.	(Assistant Examiner) (Date)	- 122702
The term of this patent shall		
not extend beyond the expiration date of U.S Patent. No. <u>6212,521</u>	DIANE D. MIZRAHI PRIMARY PATENT EXAMINER	ISSUE FEE (
	TECHNOLOGY CENTER 2100	Amount Due Date Paid
	(Primar/Examiner) 12/23	21280 3-31-03
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WARNING:		
The information disclosed herein may be res Po. session outside the U.S. Patent & Traden	tricted. Unauthorized disclosure may be prohibited by the hark Office is restricted to authorized employees and control of the hark office is restricted to authorized employees and control of the hark of the ha	he United States Code Title 35, Sections 122, 181 and 368. htractors only.
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(FACE)



6,574,638

METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA

TRANSACTION HISTORY

Date	Transaction Description
9/12/2000	Initial Exam Team nn
10/2/2000	IFW Scan & PACR Auto Security Review
11/4/2000	Correspondence Address Change
7/2/2001	Application Dispatched from OIPE
7/2/2001	Application Is Now Complete
7/18/2001	Case Docketed to Examiner in GAU
12/3/2001	Case Docketed to Examiner in GAU
1/28/2002	Case Docketed to Examiner in GAU
4/10/2002	Information Disclosure Statement (IDS) Filed
4/10/2002	Information Disclosure Statement (IDS) Filed
6/24/2002	Case Docketed to Examiner in GAU
9/9/2002	Non-Final Rejection
9/11/2002	Mail Non-Final Rejection
12/16/2002	Terminal Disclaimer Filed
12/16/2002	Response after Non-Final Action
12/20/2002	Date Forwarded to Examiner
12/23/2002	Notification of Terminal Disclaimer - Accepted
12/27/2002	Mail Notice of Allowance
12/27/2002	Mail Formal Drawings Required
12/27/2002	Mail Notification of Terminal Disclaimer - Accepted
12/27/2002	Formal Drawings Required
12/27/2002	Notice of Allowance Data Verification Completed
1/15/2003	Dispatch to Publications
1/16/2003	Workflow - File Sent to Contractor
1/16/2003	Receipt into Pubs
2/19/2003	Receipt into Pubs
3/31/2003	Issue Fee Payment Verified
3/31/2003	Workflow - Drawings Finished
3/31/2003	Workflow - Drawings Matched with File at Contractor
3/31/2003	Amendment after Notice of Allowance (Rule 312)

2/21/2002	Applicant Has Filed a Verified Statement of Small Entity Status in	
3/31/2003	Compliance with 37 CFR 1.27	
3/31/2003	Workflow - Drawings Received at Contractor	•
3/31/2003	Workflow - Drawings Sent to Contractor	
3/31/2003	Issue Fee Payment Received	
4/16/2003	Response to Amendment under Rule 312	
4/17/2003	Mail Response to 312 Amendment (PTO-271)	
4/22/2003	Application Is Considered Ready for Issue	
4/28/2003	Receipt into Pubs	
5/14/2003	Issue Notification Mailed	
6/3/2003	Recordation of Patent Grant Mailed	
6/3/2003	Patent Issue Date Used in PTA Calculation	
2/16/2011	Petition Entered	
4/15/2011	Mail-Petition Decision - Granted	
4/15/2011	Petition Decision - Granted	

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ISSUE SLIP STAPLE AREA (for additional cross references)

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SEARCHED SEARCH NOTES (INCLUDING SEARCH STRATEGY) Inventor Searce Date Date Class Sub. Exmr. Exmr. US PTO 9/7/02 pm 9/7/02 Dm 707 102 103.R USPG 104.1 NPL DM EPO 12/23/02 Search updated JPO Derwent JBM Tech Druble lafagloz On odati L INTERFERENCE SEARCHED Sub. Date Exmr. Class 2/23/02 102 bn 707 10 104/1 707

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3. Document ID: US 20020046199 A1

L1: Entry 3 of 12 File: PGPB Apr 18, 2002 PGPUB-DOCUMENT-NUMBER: 20020046199 PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20020046199 A1 TITLE: Electronic employee selection systems and methods PUBLICATION-DATE: April 18, 2002 INVENTOR-INFORMATION: COUNTRY RULE-47 CITY STATE NAME US OR West Linn Scarborough, David J. US Portland OR Chambless, Bjorn OR Becker, Richard W. Portland US OR US Check, Thomas F. Beaverton OR US Clainos, Deme M. Lake Oswego US OR Eng, Maxwell W. Portland UŚ Levy, Joel R. Portland OR US Mertz, Adam N. Portland OR Paajanen, George E. West Linn OR US Smith, David R. Beaverton OR US Smith, John R. Hillsboro OR US US-CL-CURRENT: 706/21

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File: PGPB

4. Document ID: US 20020042786 A1

L1: Entry 4 of 12

PGPUB-DOCUMENT-NUMBER: 20020042786 PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20020042786 A1

TITLE: Development of electronic employee selection systems and methods

PUBLICATION-DATE: April 11, 2002

INVENTOR - INFORMATION:

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TITLE: Survey method using a voice response system and multi mass media - NoAbstract

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(12) United States Patent

Gustman et al.

(10) Patent No.: (45) Date of Patent:

US 6,574,638 B1 *Jun. 3, 2003

(54)	METHOD AND APPARATUS FOR
	CATALOGUING MULTIMEDIA DATA USING
. •	SURVEYING DATA

- (75) Inventors: Samuel Gustman, Santa Monica, CA (US); Barbara DeLury, Los Angeles, CA (US)
- Survivors of the Shoah Visual History (73) Assignee: Foundation, Los Angeles, CA (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 225 days.

This patent is subject to a terminal disclaimer.

- (21) Appl. No.: 09/659,987
- (22) Filed: Sep. 12; 2000

(56)

- (51) Int. Cl.⁷ G06F 17/30
- (52) U.S. Cl. 707/104.1; 707/102; 707/10
- Field of Search 707/10, 102, 103 R, (58) 707/104.1

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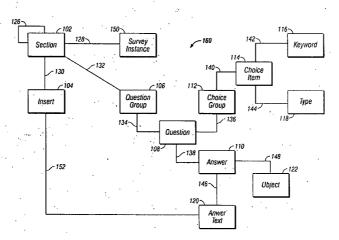
Primary Examiner-Diane D. Mizrahi

(74) Attorney, Agent, or Firm-The Hecker Law Group

ABSTRACT (57)

A method and apparatus is described wherein survey data collected from different survey versions may be retained in a cohesive data, or knowledge, base that may be used to catalogue multimedia data. A survey schema is defined that comprises survey elements that may be used to define surveys and capture survey data. In one or more embodiments of the invention, survey data may be linked to a multimedia cataloguing system. The linked survey data may be used alone or in combination with the cataloguing system to retrieve multimedia data.

26 Claims, 22 Drawing Sheets



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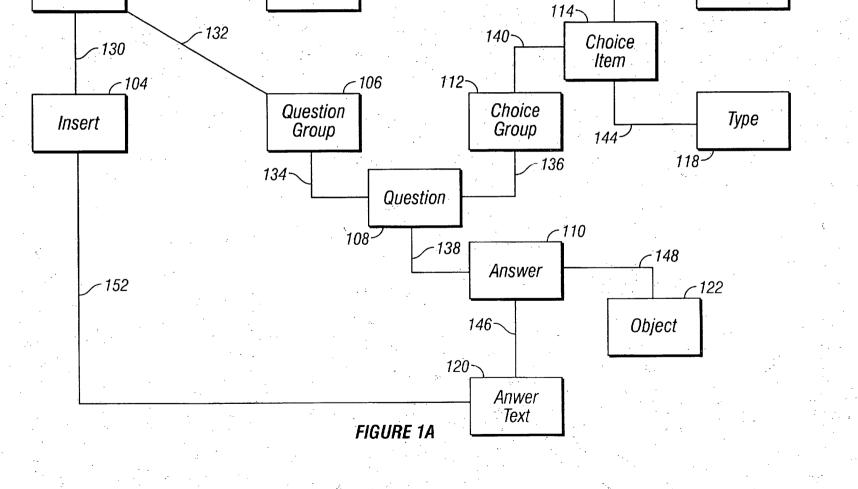
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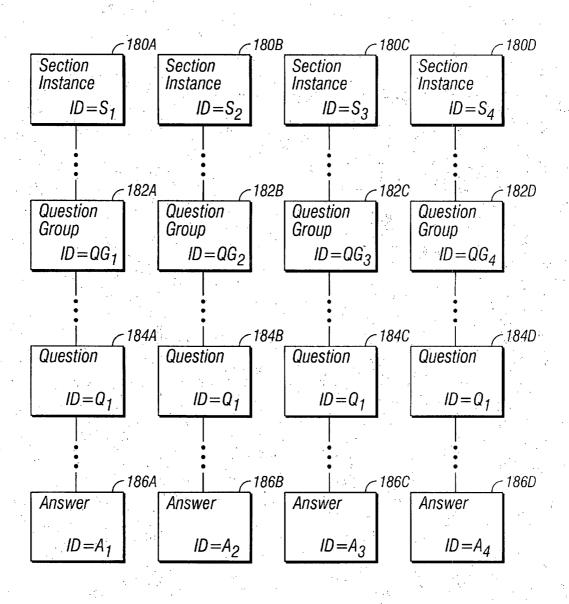
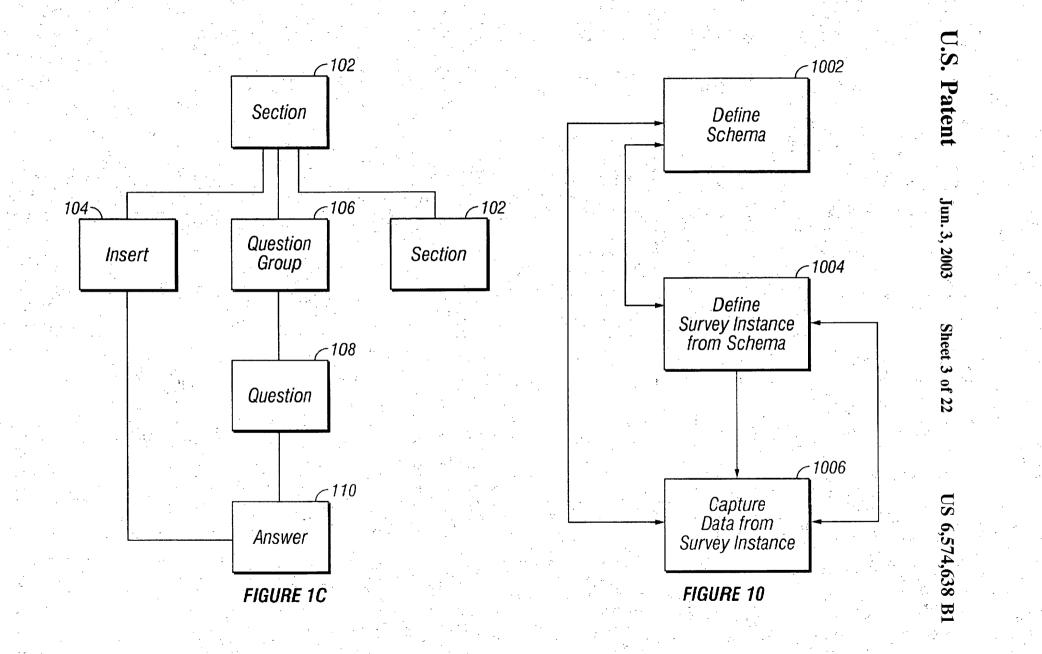
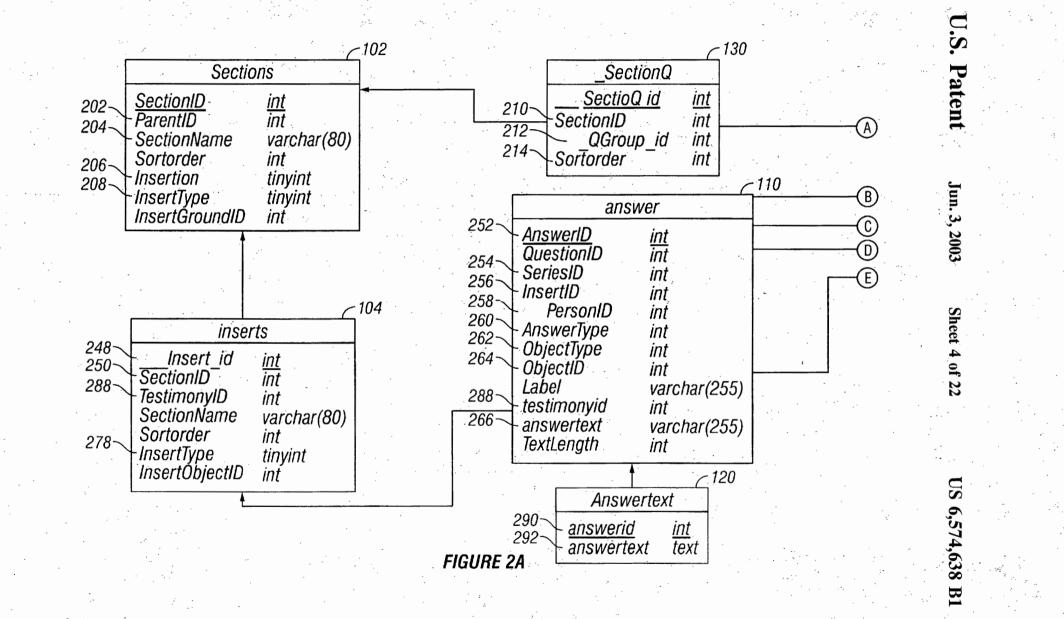


FIGURE 1B



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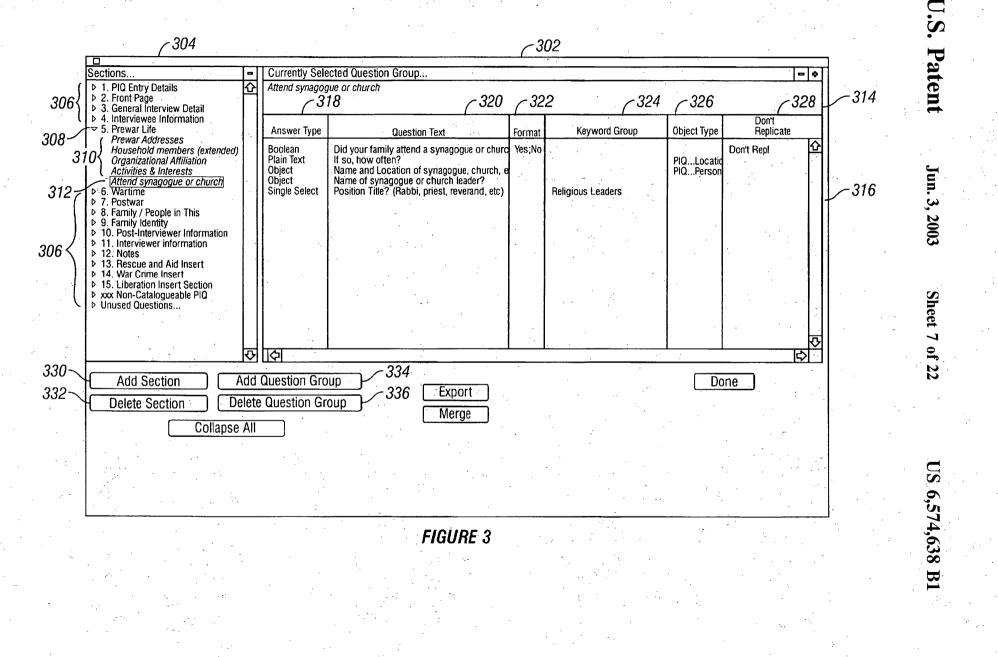
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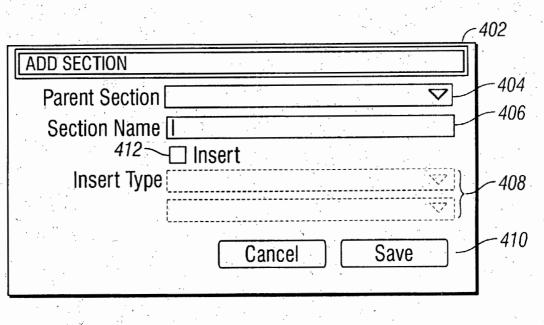


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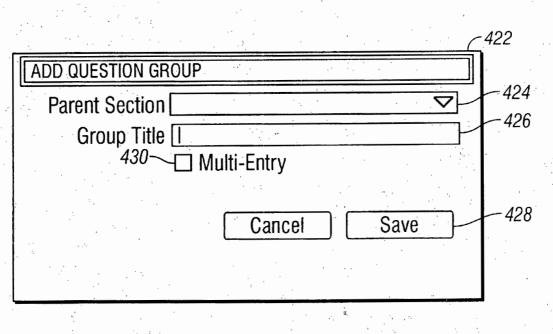


FIGURE 4B

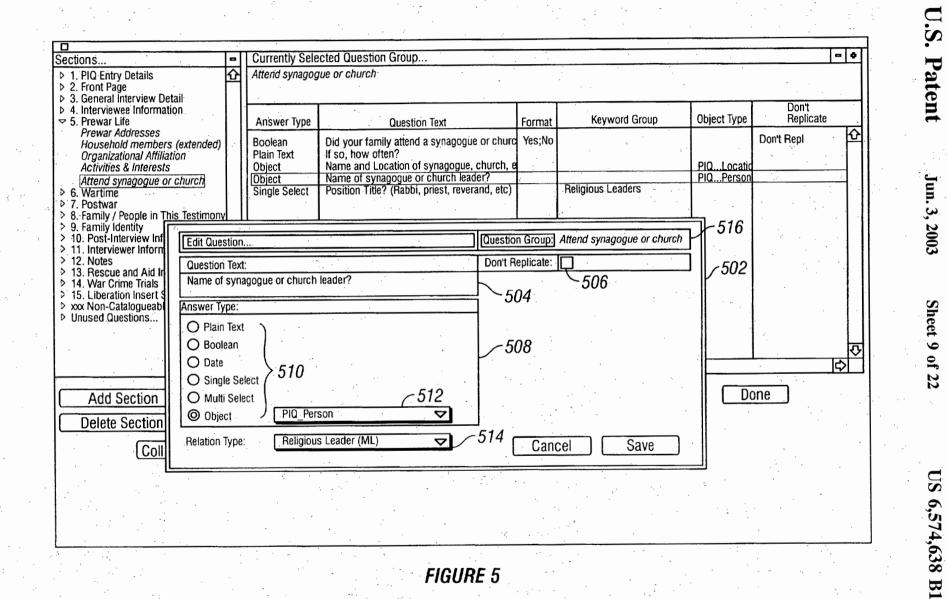


FIGURE 5

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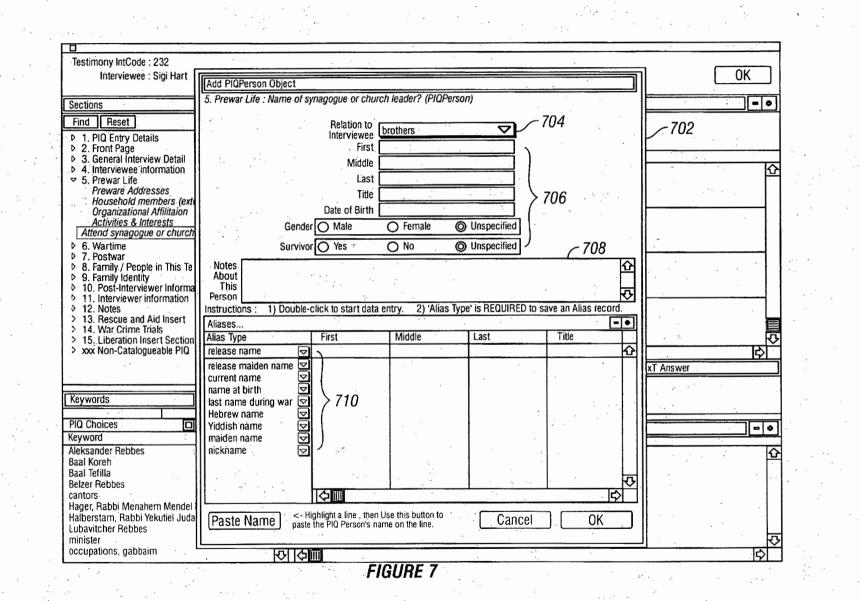
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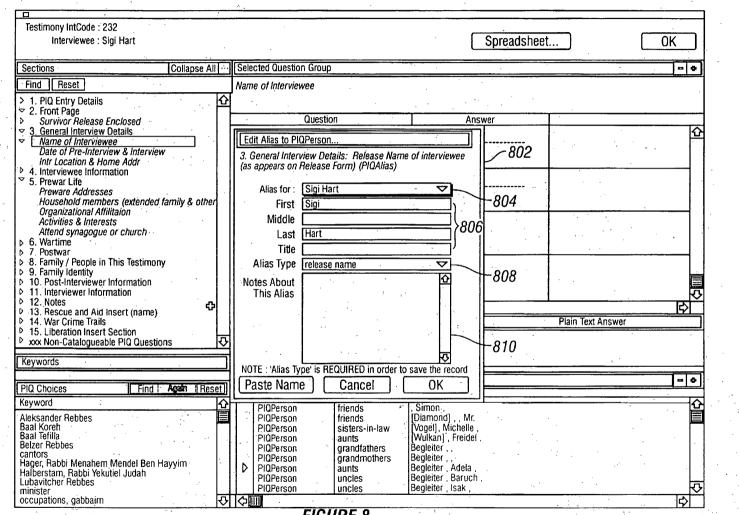


FIGURE 8

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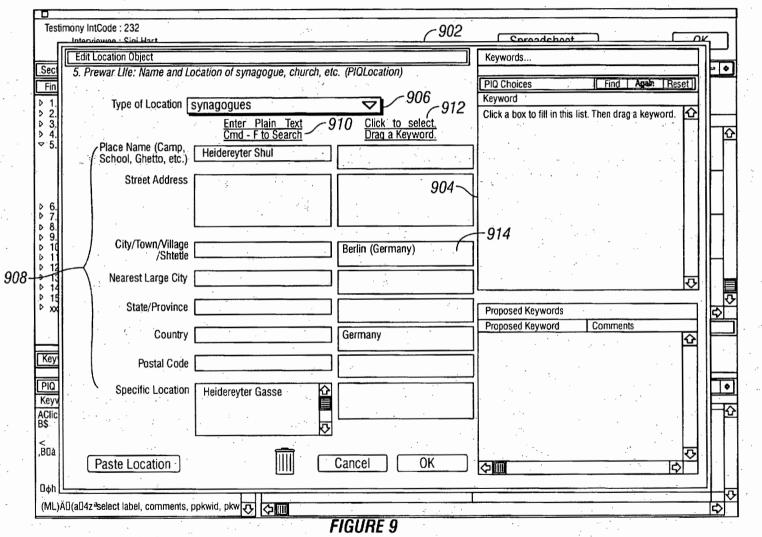
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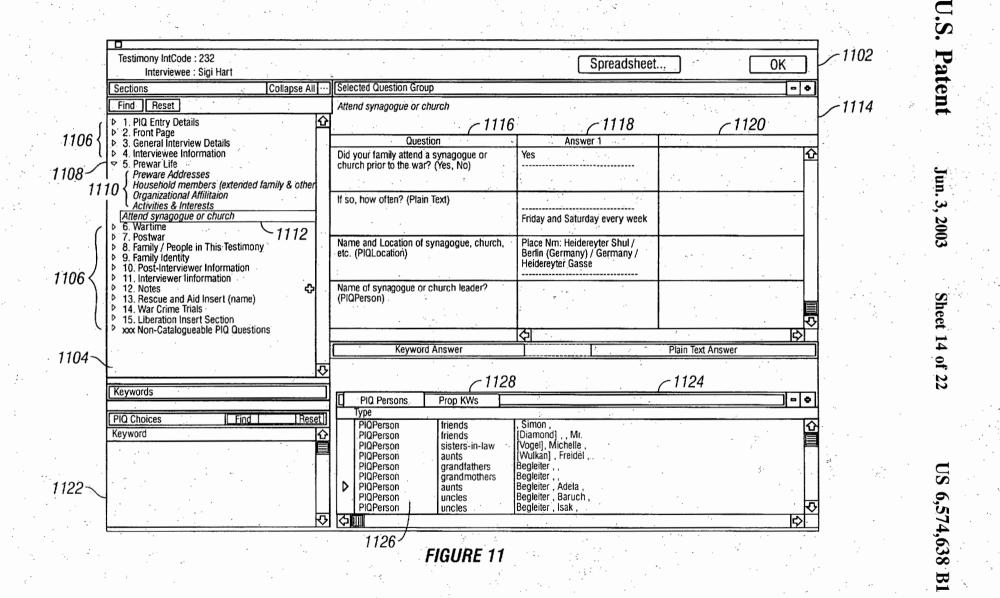
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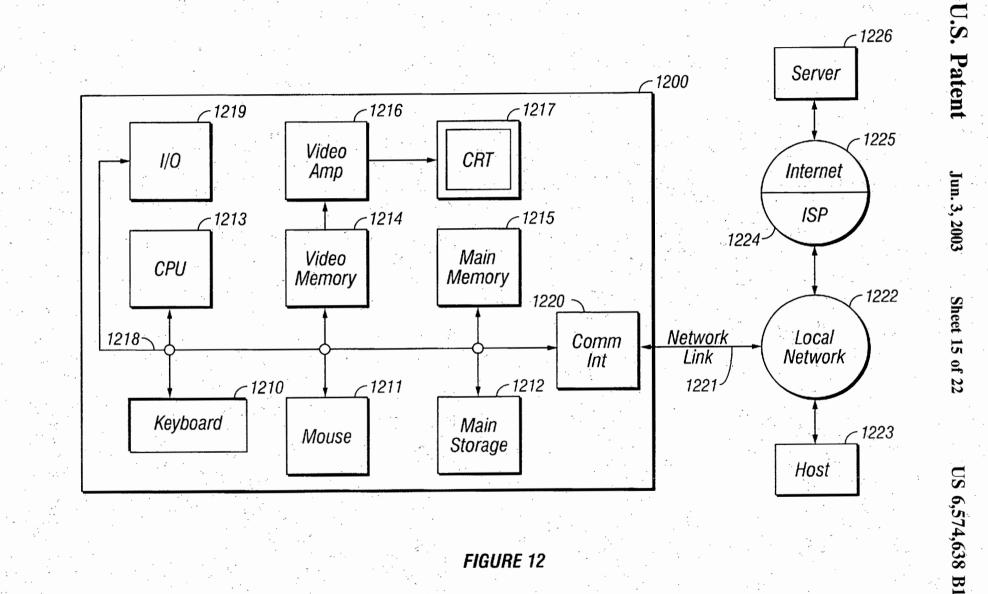
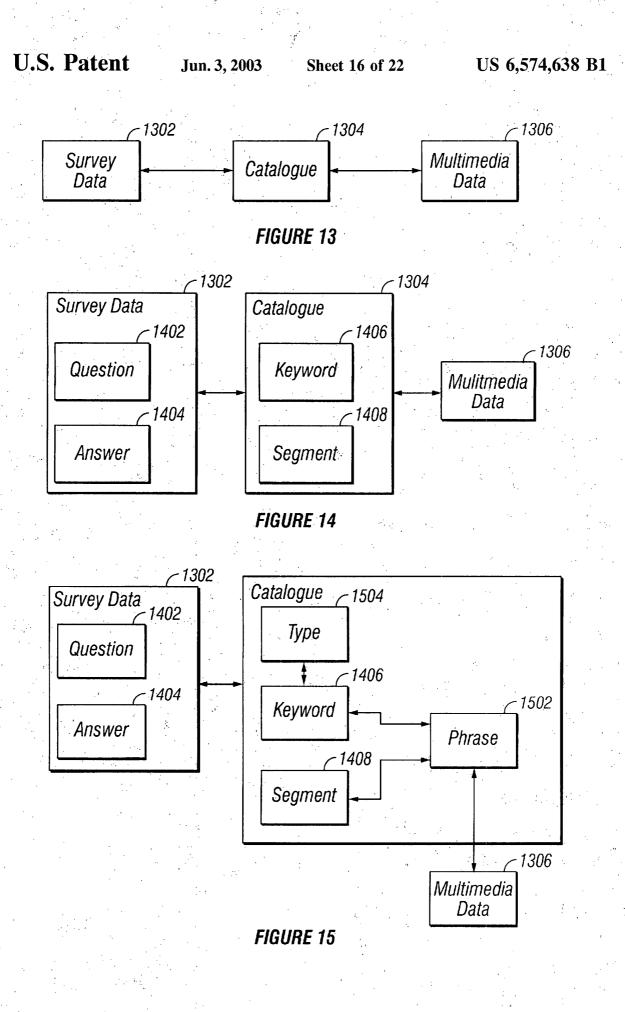


FIGURE 12

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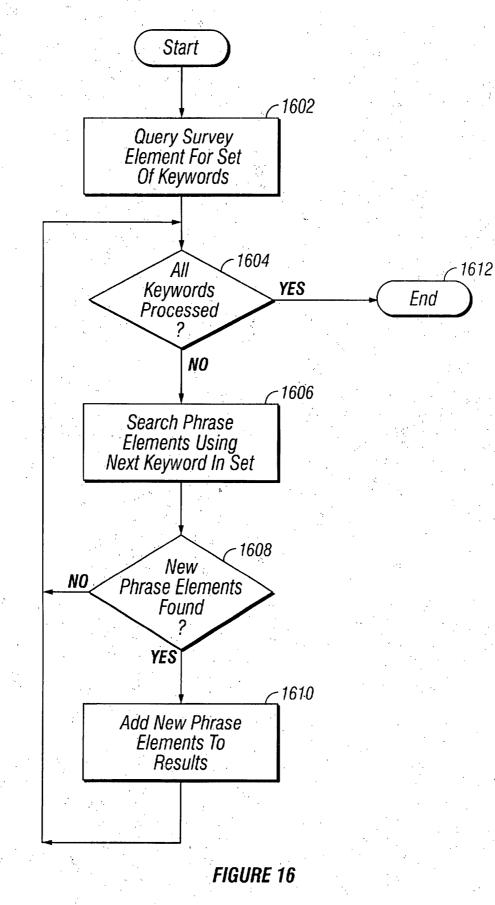
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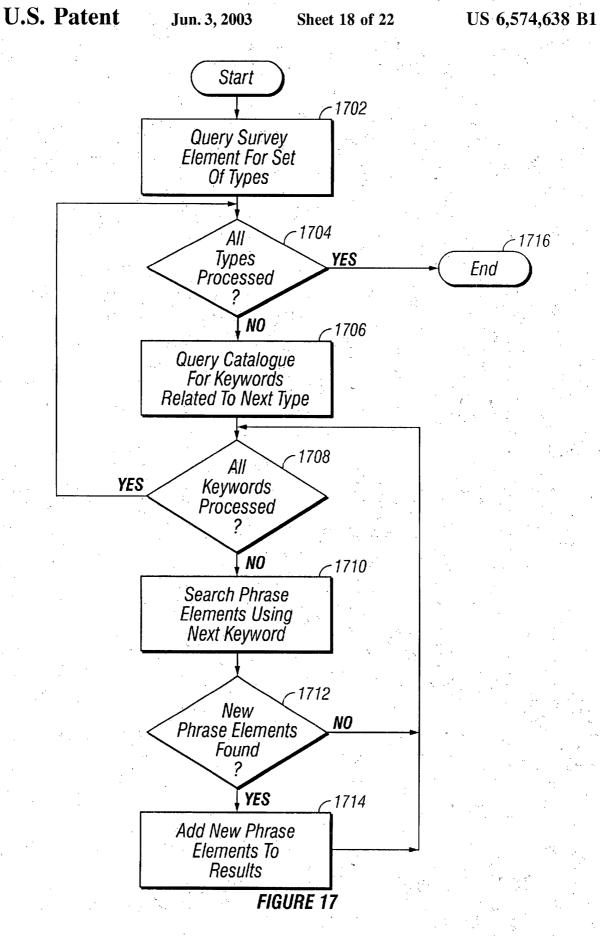
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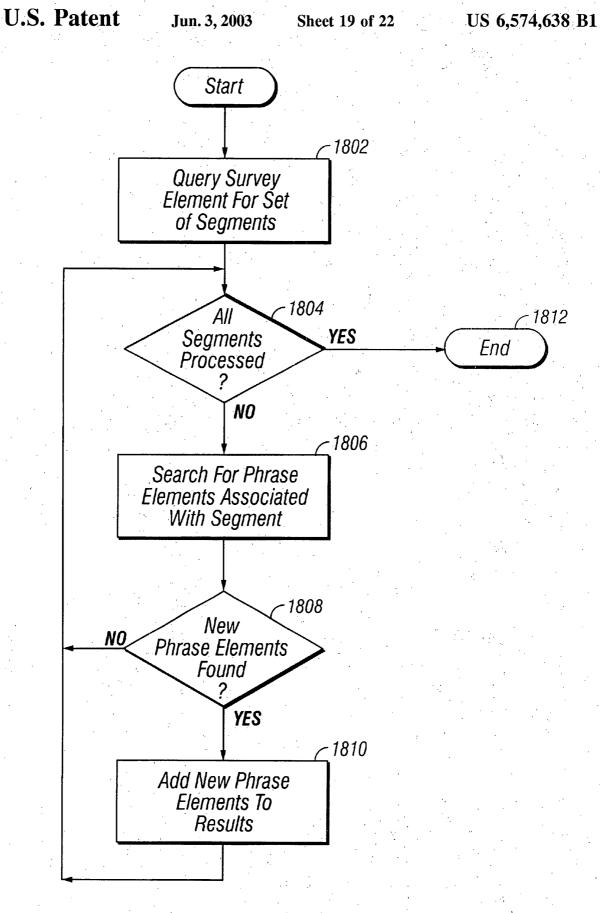


FIGURE 18

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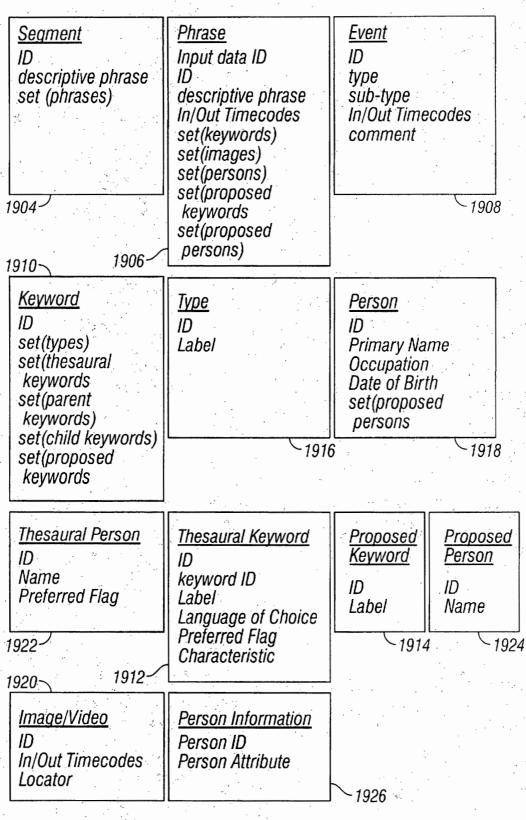


FIGURE 19A

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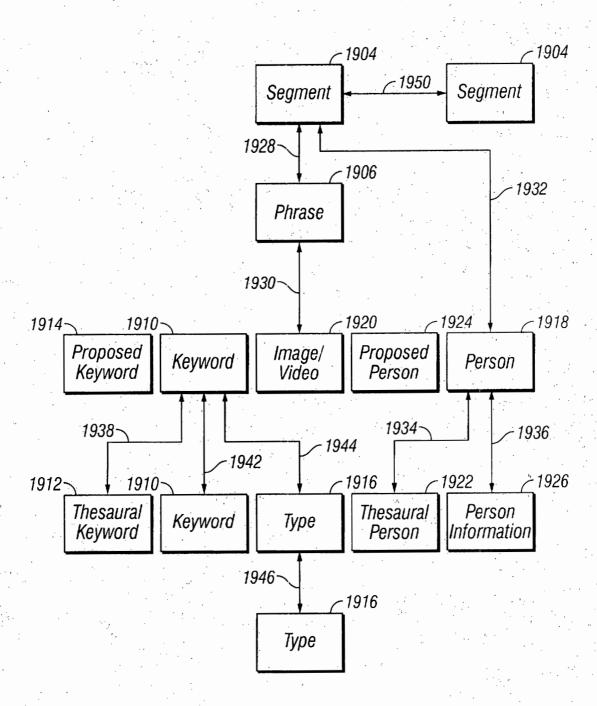
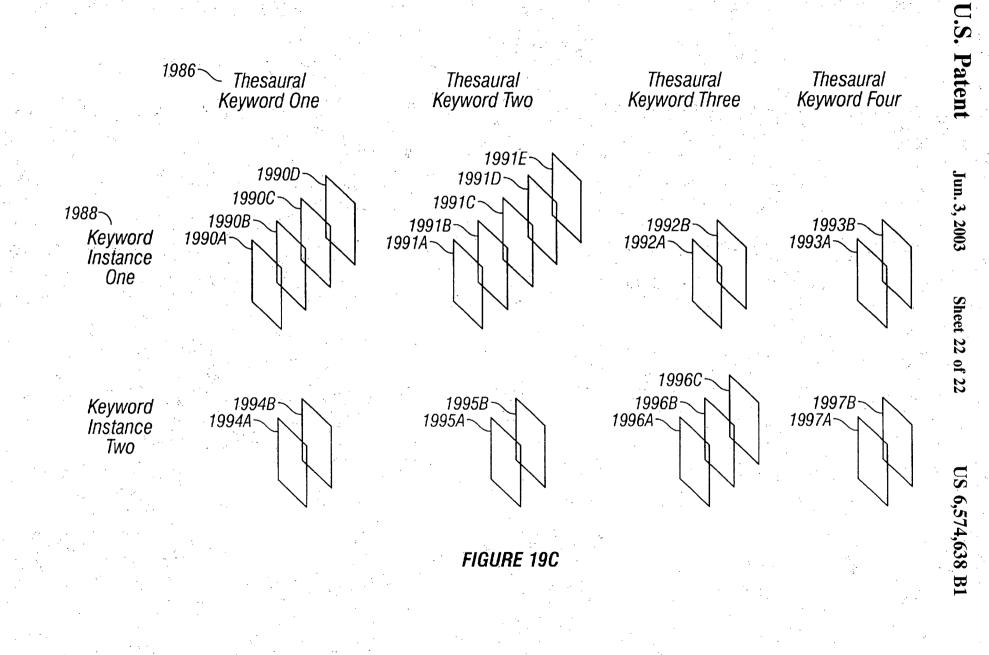


FIGURE 19B

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METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates to the collection and entering of data associated with a survey or other data collection mechanism using a computer system and the use of the survey data in cataloguing multimedia data.

2. Background Art

Data is sought and collected from different sources and used to, for example, assist in making economic, marketing, 15 etc. decisions. The collected data may be used to supplement historical information with personal experiences and to identify behavioral patterns. For example, the United States government collects census data from households that may be used by governmental entities and community organizations to allocate funds, develop social programs as well as by the business sector to locate factories, shopping centers, etc. Surveys may also be conducted by businesses to determine consumers' attitudes and behavior to assist in the research, development and marketing of products. 25

In a survey, data collection is typically conducted by posing a set of questions to a set of participants in person, over the phone or in writing, for example. The answers are typically recorded in written form and processed or analyzed in some manner. Existing techniques for analyzing data lack the ability to generate a cohesive data, or knowledge, base of responses across surveys which would facilitate data analysis. Further, existing systems do not provide the ability to relate a survey data base to a multimedia system.

Increasingly, computer systems are being used to present multimedia material. Such material is usually in the form of text, graphics, video, animation, and sound. Two or more of these data types are usually combined to form the multimedia data presented by the computer system. A computer system that is used to present multimedia material is called a multimedia system.

A cataloguing mechanism is useful to catalogue multimedia data in a multimedia system such that the multimedia data may be identified and retrieved by searching the catalogue. For example, it is beneficial to be able to associate descriptive information of a catalogue to segments of multimedia data. The descriptive information may be queried and used to identify relevant segments of multimedia data.

A problem exists in capturing descriptive information that 50 may be used to catalogue multimedia data. One mechanism that has been used to collect information is a survey. It would be beneficial to be able to incorporate the results of a survey into a catalogue that may be used to search and retrieve multimedia data. 55

SUMMARY OF THE INVENTION

A method and apparatus is described wherein survey data collected from different survey versions may be retained in a cohesive data, or knowledge, base that may be used to 60 catalogue multimedia data. A survey schema is defined that comprises survey elements that may be used to define surveys and capture survey data. In one or more embodiments of the invention, survey data comprising answers to survey questions is stored in one or more elements of the 65 survey schema. Answer elements of the survey schema may be associated with one or more elements of a catalogue of

multimedia data. The linked survey data may be used alone or in combination with the cataloguing system to retrieve multimedia data.

In addition to retaining survey answers, a survey schema comprises survey elements that may be used to build different forms or versions of a survey (a survey instance). Examples of elements of a survey schema used in embodiments of the invention include: section, question group, question, answer, data object, insert, choice group, choice item, for example. A section may be used to group question groups, inserts and sections. An insert may be used to capture repeatable data. A question group may be used to group questions. An answer is associated with each question and may also be associated with an insert. Any combination of questions may be used with any combination of data types for answers to the questions.

According to one or more embodiments of the invention, an answer value may be stored as an attribute of an answer element or as attribute (or attributes) of another element associated with an answer element (e.g., a data object or answertext element). Examples of answer and data object types include text, boolean, date, location, movement, person and keyword. New answer and data object types and data objects may be dynamically added to the survey schema. For example, currency and health types may be added to capture currency and health answers.

In one or more embodiments of the invention, survey data may be associated with elements of a multimedia data catalogue. In one or more embodiments of the invention, survey data comprising a survey, survey answers or both may be queried and the results of the query used to identify multimedia data. A survey schema comprises elements that may be used to build a survey (or surveys) and store answers to survey questions. Elements of the survey may be linked to elements of a multimedia catalogue that are associated with the multimedia data. Survey data may be queried to identify a catalogue element and the multimedia data associated with the catalogue element.

In one or more embodiments of the invention, a phrase element of the catalogue is associated with a multimedia data item and with other catalogue elements such as keywords and persons. In one or more embodiments of the invention, an answer and/or question stored in a survey schema may comprise, or otherwise be associated with, catalogue elements such as a keyword (or keywords) and/or a person (or persons). By identifying a catalogue element (or catalogue elements) in a query operation on an answer or question in a survey schema, it is possible to identify phrase elements. Thus, in one or more embodiments of the invention, an association is formed between survey data and multimedia data via one or more catalogue elements.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1A illustrates a schema comprising survey elements according to an embodiment of the invention.

FIG. 1B provides an example of reusable survey elements according to an embodiment of the invention.

FIG. 1C provides an example of a structure of a survey instance according to an embodiment of the invention.

FIGS. 2A to 2C illustrate elements of the survey schema of FIG. 1A and attributes associated with survey elements according to one or more embodiments of the invention.

FIG. 3 illustrates an example of a window in a graphical user interface used to modify instances of section that comprise a survey instance according to an embodiment of the invention.

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FIGS. 4A–4B illustrate add section and question panels according to an embodiment of the invention.

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FIG. 5 provides an example of a display that is used to edit an instance of question according to an embodiment of the invention.

FIG. 6 illustrates a graphical user interface used to edit an instance of choice group according to one or more embodiments of the invention.

FIGS. 7, 8 and 9 provide examples of a graphical user ¹⁰ interface for entering object information such as person, alias and location objects according to an embodiment of the invention.

FIG. 10 illustrates a survey definition and generation process flow according to one or more embodiments of the $_{15}$ invention.

FIG. 11 provides an example of a graphical user interface illustrating a portion of a survey instance that may be used to capture data according to an embodiment of the invention.

FIG. 12 is a block diagram of one embodiment of a ²⁰ computer system capable of providing a suitable execution environment for an embodiment of the invention.

FIGS. 13–15 provide an overview of associations between survey and multimedia data according to one or more embodiments of the invention.

FIGS. 16-18 illustrate process flows for identification of catalogue elements, such as phrase, related to survey elements.

FIG. 19A provides an example of catalogue and attribute 30 elements and their attributes according to an embodiment of the invention.

FIG. 19B illustrates relationships formed between the elements identified in FIG. 19A according to an embodiment of the invention.

FIG. 19C provides an illustration of instances of keyword 1910 and a plurality of associated label attributes according to an embodiment of the invention.

DETAILED DESCRIPTION OF THE INVENTION

A method and apparatus for cataloguing multimedia data using surveying data is described. In the following description, numerous specific details are set forth in order to provide a more thorough description of the present invention. It will be apparent, however, to one skilled in the art, that the present invention may be practiced without these specific details. In other instances, well-known features have not been described in detail so as not to obscure the invention.

In one or more embodiments of the invention, survey data comprising a survey, survey answers or both may be queried and the results of the query used to identify multimedia data. A survey schema comprises elements that may be used to 55 build a survey (or surveys) and store answers to survey questions. Elements of the survey may be linked to elements of a multimedia catalogue that are associated with the multimedia data. Survey data may be queried to identify a catalogue element and the multimedia data associated with the catalogue element.

In one or more embodiments of the invention, a phrase element of the catalogue is associated with a multimedia data item and with other catalogue elements such as keywords and persons. In one or more embodiments of the 65 invention, an answer and/or question stored in a survey schema may comprise, or otherwise be associated with,

catalogue elements such as a keyword(s), phrase(s), segment (s), type(s) and/or a person(s).

By identifying a catalogue element (or catalogue elements) in a query operation on survey data (e.g., an answer or question), it is possible to identify phrase elements that are associated with the catalogue element. In one or more embodiments of the invention, the multimedia data is associated with the survey answer or question via the phrase element and its associated keywords and persons. That is, by identifying a keyword (or person) catalogue element that is associated with a phrase element and an answer (or question) survey element, it is possible to associate multimedia data to survey data and vice versa. Thus, in one or more embodiments of the invention, an association is formed between survey data and multimedia data via one or more catalogue elements.

Survey data may be linked using catalogue elements in addition to, or in replacement of, phrase, keyword or person catalogue elements. In one embodiment of the invention, a survey element may be associated with a segment element of the catalogue that is comprised of phrase elements each of which is associated with multimedia data.

For example, a testimony segment comprises multimedia data associated with a videotaped testimony, or interview, in which survey questions are presented and answered by a survey participant. Survey elements may include a testimony identifier that may be used to identify the testimony segment. The phrase elements associated with a testimony segment as well as the multimedia data associated with the phrase elements may be determined from the testimony segment.

FIGS. 13–15 provide an overview of an association between survey and multimedia data according to one or more embodiments of the invention. Survey data 1302 comprises elements that are associated with a catalogue 1304. Catalogue 1304 comprises that are related to multimedia data 1306.

In one embodiment of the invention, a cataloguing graphical user interface is used to create instances of elements of catalogue 1304 wherein multimedia data is viewed and information descriptive of the multimedia data is stored in elements of the catalogue 1304. In another embodiment of the invention, a surveying system is used to enter survey data (e.g., survey responses) which may be used to populate attributes of elements of catalogue 1304.

In one embodiments of the invention, survey data 1302 comprises elements, such as question 1402 and answer 1404 of FIG. 14, having some number of attributes. Catalogue 1304 comprises keyword 1406 and segment 1408 elements. As is described in more detail below, segment 1408 and keyword 1406 are related to multimedia data 1306 such that an identification of either an instance of keyword 1406, an instance of segment 1408 or both may be used to identify multimedia data 1306.

In an embodiment of the invention, instances of keyword 1406 may be related to instances of question 1402 and answer 1404. For example, it is possible to define one or more instances of keyword 1406 as selectable as an answer to a survey question. An instance of answer 1404 may comprise an attribute (or attributes) that identifies one or more instances of keyword 1406.

Elements of survey data 1302 may comprise one or more attributes that identify instances of segment 1408. For example, in an embodiment of the invention, answer 1404 comprises a "testimonyid" attribute that may be used to identify an instance of segment 1408. That is, an attribute of

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answer 1404 may be used to store a value that identifies an instance of segment 1408.

Referring to FIG. 15, keyword 1406 and segment 1408 are associated with phrase 1502 in one or more embodiments of the invention. Phrase 1502 is associated with ⁵ multimedia data 1306, or a portion thereof. It is possible using an association between phrase 1502 and either keyword 1406 or segment 1408 (or both) to identify an associated portion of multimedia data 1306. As is discussed in more detail below, phrase 1502 contains at least one attribute ¹⁰ that may be used to identify multimedia data 1306, or a portion thereof. Elements of survey data 1302 and catalogue 1304 that are in some manner associated with phrase 1502 may be queried to identify instances of phrase 1502 and the multimedia data 1306 related to phrase 1502. ¹⁵

For example, by identifying an instance of question 1402 or answer 1404 that is associated with one or more instances of keyword 1406 or segment 1408, it is possible to identify instances of phrase 1502 and the multimedia data 1306 that is associated with the instances of phrase 15002. In one or more embodiments of the invention, question 1402 and answer 1404 may be associated with a type hierarchy that may be used to classify instances of keyword 1406. It is possible to identify instances of phrase 1502 using type 1504 and the association between type 1504 and keyword 1406.²⁵ FIGS. 16–18 illustrate process flows for identification of catalogue elements, such as phrase 1502, related to survey elements.

FIG. 16 illustrates a process flow for identification of instances of phrase 1502 using instances of keyword 1406. Keyword 1406 may be associated with question 1402 and answer 1404 of survey data 1302, for example. At step 1602, a set of keywords 1406 is identified from elements of survey data 1302.

For example, a question 1302 may be queried to identify keywords 1406 that are associated with question 1302, The results of the query may be used in conjunction with the process of FIG. 16 to identify multimedia data 1306 that may be displayed when question 1302 is presented in a survey to a survey participant, for example. To further illustrate, a query of instances of answer 1404 may yield a set of answers 1404 wherein an answer includes one or more instances of keyword 1406. The results of the query may be used in conjunction with the process of FIG. 16 to identify multimedia data that may be displayed as part of an answer to a survey question, for example.

At step 1604, a determination is made whether all of the keywords identified in step 1602 have been processed. If so, processing ends at step 1612. If not, processing continues at $_{50}$ step 1606 to search catalogue 1304 for instances of phrase 1502 associated with the next keyword in the set created in step 1602.

At step 1608, a determination is made whether new instances of phrase 1608 where found in step 1606 (i.e., 55 instances of phrase 1502 that were not found in a previous execution of step 1606). If not, processing continues at step 1604 to process any remaining keywords. If there are new instances of phrase 1502, processing continues at step 1610 to add the new instances to a result comprising instances of 60 phrase 1502, and processing continues at step 1604 to process any remaining keywords. The result comprises instances of phrase 1502 related to the survey element (or elements) related to instances of keyword 1406 identified in step 1602. The multimedia data 1306 related to the instances 65 of phrase 1502 in the result may be identified using the instances of phrase 1502.

Type 1504 may be associated with elements of survey data 1302 and keyword 1406 and thus may be used to identify a set of related multimedia data 1306. FIG. 17 illustrates a process flow for retrieval of instances of phrase 1502 using instances of type 1504. Type 1504 may be associated with elements of survey data 1302. At step 1702, a set of types is identified that comprises instances of type 1504 that are related to one or more elements of survey data 1302 (e.g., to an instance (or instances) of question 1402 or answer 1404, or both).

At step 1704, a determination is made whether all of the types identified in step 1702 have been processed. If so, processing ends at step 1716. If not, processing continues at step 1706 to search catalogue 1304 for instances of keyword 1406 that are related to the next instance of type 1504 in the set. At step 1708, a determination is made whether all of the keywords identified in step 1706 have been processed. If so, processing continues at step 1706 to process any remaining types. If not, processing continues at step 1710 to search catalogue 1305 for instances of phrase 1502 associated with the next keyword in the set created in step 1706.

At step 1712, a determination is made whether new instances of phrase 1502 where found in step 1710 (i.e., instances of phrase 15002 that were not found in a previous execution of step 1710). If not, processing continues at step 1708 to process any remaining keywords. If there are new instances of keyword 1406, processing continues at step 1714 to add the new instances to a result comprising instances of phrase 1502, and processing continues at step 1708 to process any remaining keywords. The result comprises instances of phrase 1502 related to the survey element (or elements) related to instances of type 1504 identified in step 1702. The multimedia data 1306 related to the instances of phrase 1502 in the result may be identified using the instances of phrase 1502.

Elements of survey data 1302 may be related to an instance (or instances) of segment 1408. Using a relationship between segment 1408 and phrase 1502, it is possible to identify the multimedia data 1306 that is associated with an element of survey data 1302 that is related to segment 1408. FIG. 18 illustrates a process flow for identification of instances of phrase 1502 using instances of segment 1408.

At step 1802, a set of segments is identified that comprises instances of segment 1408 that are related to one or more elements of survey data 1302 (e.g., to an instance (or instances) of answer 1404, a data object, or both).

At step 1804, a determination is made whether all of the segments identified in step 1802 have been processed. If so, processing ends at step 1812. If not, processing continues at step 1806 to search catalogue 1304 for instances of phrase 1502 that are related to the next instance of segment 1408 in the set.

At step 1808, a determination is made whether new instances of phrase 1608 were found in step 1806 (i.e., instances of phrase 1502 that were not found in a previous execution of step 1806). If not, processing continues at step 1804 to process any remaining segments: If there are new instances of segment 1408, processing continues at step 1810 to add the new instances to a result which comprises instances of phrase 1502, and processing continues at step 1804 to process any remaining segments. The result comprises instances of phrase 1502 related to the survey element (or elements) via instances of segment 1408 identified in step 1806. The multimedia data 1306 related to the instances of phrase 1502 in the result may be identified using the instances of phrase 1502.

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FIGS. 16–18 are discussed with reference to the question 1402 and answer 1404 elements of survey data 1302. It should be apparent that other elements of survey data 1302 may be used as well. For example, in one or more embodiments of the invention, survey data 1302 comprises data 5 objects that may be used to store an answer to a survey question. Examples of data objects include person, alias, and location. It is possible to search survey data using one or more data objects as well as other elements of survey data 1302. Similarly, other catalogue elements may be related to 10 survey data or used to identify multimedia data.

Survey Data

In one or more embodiments of the invention, survey data comprises a survey schema that comprises survey elements¹⁵ that may be used to define surveys and capture survey data. In one or more embodiments of the invention, survey data comprising answers to survey questions is stored in one or more elements of the survey schema. Answer elements of the survey schema may be associated with one or more²⁰ elements of a catalogue that may be used as indices into multimedia data. In one or more embodiments of the invention, a catalogue comprises keywords organized in a hierarchy and categorized according to a type hierarchy, phrases and segments, for example.²⁵

Survey data may be collected from different survey versions into a cohesive data, or knowledge, base or other storage mechanism. Each survey version may comprise different sets of questions and different types of answers to the questions. In an embodiment of the invention, at least one relational database may be used to store survey schema, survey instances and participant data. However, it should be apparent that other storage mechanisms (e.g., file system) may be used. Data may be collected and retained in a cohesive store for each participant regardless of the survey form or instance used.

A survey schema comprises survey elements that may be used to build different forms or versions of a survey (a survey instance). Examples of elements of a survey schema 40 used in embodiments of the invention include: section, question group, question, answer, data object, insert, choice group, choice item, for example. A survey instance may be defined using elements of a survey schema. For example, a survey instance may comprise some number of sections each of which may comprise some number of sections (or subsections), inserts and question groups. A question group may comprise questions. An answer is associated with each question and may also be associated with an insert. Any combination of questions may be used with any combination of data types for answers to the questions. An existing survey instance may be dynamically modified by adding, deleting or modifying survey elements.

In one or more embodiments of the invention, the schema includes a question element that is used to define survey 55 questions. Questions may be grouped using a question group element. Questions and answer types may be dynamically added to the survey schema and added to a survey instance created using the survey schema. An association is created between a question and an answer via the question and 60 answer elements.

According to one or more embodiments of the invention, a survey schema includes an answer element that identifies a data type that may be a simple or complex data type. A simple data type typically involves a single value while a 65 complex data type may involve multiple values. In one or more embodiments of the invention, simple data is stored in

an attribute of an instance of answer or another element associated with the answer instance (e.g., answertext). Complex data is stored in more than one attribute such as in attributes of a data object that is related (directly or indirectly) to an answer element. Thus, an answer value may be stored as an attribute of an answer element or as attribute (or attributes) of another element associated with an answer element (e.g., a data object or answertext element). Examples of answer and data object types include text, boolean, date, location, movement, person and keyword. New answer and data object types and data objects may be dynamically added to the survey schema.

Survey answers that are retained in the survey data base (e.g., in answer, answertext and data object elements) may comprise links to elements of a catalogue that is associated with multimedia data. For example, an answer to a survey question may comprise one or more keywords that are components of a catalogue into the multimedia data.

A special type of survey element referred to as an insert may be repeated none or more times in a survey. An insert may be used, for example, to accommodate repeatable survey information. For example, a survey may include questions requesting a person's educational background (e.g., undergraduate and graduate collegial background). An insert may be used to capture each collegial experience, for example.

Question group elements are reusable in a survey such that more than one instance of a question in a question group may share the same identifier. Thus, it is possible to correlate answers to question instances using the same identifier.

Survey Schema

According to one or more embodiments of the invention, a schema is defined that identifies a generic survey structure and includes survey elements that may be used to create survey instances and capture data collected for each survey instance. FIG. 1A illustrates a schema comprising survey elements according to an embodiment of the invention.

In one or more embodiments of the invention, a survey instance (or survey form) 150, created using a schema such as survey schema 160, comprises one or more instances of section 102. Section 102 may include a number of instances of section 102 (or subsections), insert 104 or question group 106. Insert 104 represents an element that may be repeated in survey instance 150. Insert 104 may be used to dynamically add components to a survey instance 150 to capture repeatable data which may occur when there can be multiple answers to a question or questions, for example. A section may contain questions requesting information regarding the automobiles that a participant's has purchased. An insert may be used to group answers associated with each of the automobiles.

A subsection is an instance of section 102 that is contained within another instance of section 102. In one or more embodiments of the invention, there may be a hierarchy of instances of section 102 defined in survey schema 160 and/or used in a survey instance 150.

An instance of section 102 is related to another instance of section 102 via relationship 126 such that an instance of section 102 may contain (or be contained in) multiple instances of section 102. Insert 104 is related to section 102 via relationship 130 such that multiple instances of insert 104 may be associated with section 102. Section 102 may contain none or more instances of insert 104. Section 102 may be associated with, and contain, none or more instances of question group 106 as is illustrated by relationship 132.

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Question group 106 may be used to group a number of instances of question 108. Question group 106 may contain more than one question 108. Question 108 may be included in more than one question group 106.

In one or more embodiments of the invention, a set of ⁵ selection items (each identifying a valid answer selection) may be associated with a question. A selection is identified by a choice item 114. Choice group 112 is used to group a number of instances of choice item 114 to an instance of question 108. Where a choice group 112 is associated with ¹⁰ question 108, a value of answer 110 may be identified by selecting one of a number of choices identified by instances of choice item 114 comprising choice group 112.

In one or more embodiments of the invention, choice item 114 may be one selection item, or value. For example, an instance of choice item 114 may specify an instance of keyword 110 (i.e., an attribute value associated with keyword 110). Alternatively, choice item 114 may identify a class that comprises a plurality of selection items. For example, choice item 114 may identify an instance of type 118, where type 118 represents a class of selection items (e.g., a class of keywords). A class of selection items comprises selection items (e.g., instances of keyword 116) that are of type 118. Thus, choice group 112 may comprise instances of choice item 114 which may be a combination of none or more individual selection items and none or more classes of selection items.

An answer may be a simple or complex answer. A simple data type typically involves a single value while a complex data type may involve multiple values. In one or more embodiments of the invention, simple data is stored in an attribute of an instance of answer or another element associated with the answer instance (e.g., answertext). Complex data is stored in more than one attribute such as in attributes of a data object that is related (directly or indirectly) to an answer element.

In one or more embodiments of the invention, an answer to an instance of question 108 may be stored in answer 110, answerText 120 and/or data object 122. A single-value 40 answer may be stored in an attribute of answer 110 (e.g., a value stored in attribute 266, "answertext" of FIGS. 2A-2C). None or more instances of answertext 120 may be used to store additional answer text of a question 108. In an embodiment of the invention, a survey element referred to as data object 122 may be used to store a multi-value answer. In an embodiment of the invention, multiple instances of data object 122 may be used to store a multi-value answer to question 108. An attribute of one data object 122 may be stored as attributes of data object 122. Thus, an instance of $_{50}$ data object 122 may be associated with another instance of data object 122 and answer 110. for example.

In an embodiment of the invention, data object 122 includes, but is not limited to, person, alias, date, movements and location objects each of which comprise a set of $_{55}$ attributes that may be used to store values of a multi-value answer. A person data object may have first name, middle name, last name, date of birth, gender, type, title, etc. attributes, for example. Embodiments of the invention may include additional or different data objects 122 or have $_{60}$ additional or different attributes.

Survey schema 160 is used to create none or more survey instances 150. Survey instance 150 may be in a print, electronic or other form, for example. In one or more embodiments of the invention, survey instance 150 may be displayed in a graphical user interface (GUI) which may be used to capture survey data. The GUI may be used by a 10

survey participant to enter answers, or by another party who enters a participant's answers recorded on a hardcopy of a survey instance **150**, for example.

In one or more embodiments of the invention, a survey instance 150 that is displayed in a GUI or otherwise may comprise some number (i.e., none or more) of instances of elements of survey schema 160. FIG. 1C provides an example of structure of a survey instance according to an embodiment of the invention. Survey instance 150 comprises some number of section 102, question group 106, question 108, choice group 112, choice item 114, etc. Question 108 identifies an answer 110 that is to be used in capturing an answer (or answers) to the question. Answer 110 may identify a data object, or other schema element, that may be used in storing answer values. Instances of answer 110, answer text 120 and object 122 may be added to a survey instance 150 to store answers to a question 108. Insert 104 may be associated with instances of section 102 and instances of insert 104 may be dynamically added during data capture to capture repeatable data, and answer 110 may be associated with an insert 104.

Survey schema 160 may be used to create any number of survey instance 150 each of which may vary in their structure including but not limited to section 102, question group 106, question 108, answer 110 and/or the types of answers that are expected for each question. Answers associated with each of survey instance 150 may be captured into a cohesive data store (e.g., a relational database or databases).

Survey Schema Element Attributes

In one or more embodiments of the invention, attributes of elements of survey schema 160 comprise attributes that may be used to store information concerning components of a survey instance 150 and data collected for a survey instance 150 (e.g., participant data). FIGS. 2A to 2C illustrate elements of survey schema 160 of FIG. 1A and attributes associated with survey elements according to one or more embodiments of the invention.

Section 102 includes a section identifier attribute 202 ("SectionID") that uniquely identifies each instance of section 102. A parent identifier attribute 204 ("ParentID") identifies a subsection's parent instance of section 102. Attributes 206 and 208 indicate whether an instance of section 102 may have inserts (e.g., instances of insert 104) and the type of insert(s), respectively. Section name attribute 280 ("SectionName") comprises a name or title of an instance of section 102.

In one or more embodiments of the invention, element 130 of survey schema 160 is used to relate section 102 and question group 106 in a many-to-many relationship. That is, section 102 may include none or more instances of question group 106, and none or more instances of section 102 may contain the same instance of question group 106. Instances of element 130 may be identified using attribute 210 ("SectionQ_id"). Attributes 212 and 214 relate an instance of section 102 using its identifier (section identifier 150) and an instance of question group 106 using its identifier (question group identifier 216, "QGroup_id"), respectively. Question 108 includes a question identifier 220 ("QuestionID") to identify each instance. Attribute 218 associates an instance of question 108 with an instance of question group 106. Answer type attribute 222 identifies an answer type for question 108. Where the type of answer is a complex data object, attribute 228 identifies the type of data object (e.g., person 128, location 124 and alias 126).

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Attribute 226 contains the text of the question. Attribute 230 identifies whether an answer 110 associated with an instance of question 108 is repeatable.

Choice group 112 includes a choice group identifier 240 ("ChoiceGroupID") that identifies an instance. Choice group identifier 240 is used in choice item 114 (attribute 242) to associate an instance of choice group 112 with an instance of choice item 114. Attributes 244 and 246 of choice item 114 to identify one selection item or a class of selection items, respectively.

Insert 104 includes an identifier attribute 248 ("Insert_ id") that identifies an instance. Insert 104 is used to identify a repeatable data in a survey instance 150. Attribute 250 ("SectionID") associates an instance of insert 104 to an instance of section 102. Attribute 278 ("InsertType") identifies a type of insert.

An instance of answer 110 may be identified using attribute 252 ("AnswerID"). Attribute 254 ("QuestionID") associates an instance of answer 110 and an instance of question 108. An instance of answer 110 may be associated with an instance of insert 104 via attribute 256 ("InsertID"). A value that is an answer to a question may be stored in attribute 266 ("answertext"). Additional answer values may be stored in attribute 292 ("answertext") of element 120 which may be associated with answer 110 using attribute 290. Alternatively, a data object may be used to store a multi-value answer. Attributes 262 and 264 may be used to associate an answer 110 with a data object 122. Attribute 260 ("AnswerType") specifies the type of answer. Examples of answer types include boolean, plain text, object (e.g., data object) and single select. Person 128, alias 126 and location 124 are examples of data object 122. Person 128 includes attributes associated with a person (e.g., name, gender, date of birth, etc.) Attribute 268 ("PersonID") is used to identify an instance of person 128. A new answer type may be added 35 by specifying a new value for attribute 260 associated with the new answer, or data, type.

Another example of data object 122, alias 126 may be used to store another identity associated with, for example, a person. Attribute 272 ("AliasID") is used to identify an instance of alias 126. Attribute 274 relates an instance of person 128 and alias 126. Location 124 includes attributes for storing location information (e.g., city, state, country, street address, etc.). Attribute 276 is used to identify an instance of location 124.

In one embodiment of the invention, for example, multiple instances of question 108 may be created with the same identifier. None or more instances of answer 110 relate to one instance of question 108. Alternatively, more than one instance of question 108 having the same identifier may be $_{50}$ associated with none or more instances of answer 110. That is, a survey element such as question 108 may be reused such that multiple instances of question 108 are given the same identifier. Thus, the same identifier may be used to identify one or more instances of the element thus facilitating a query for information associated with the reusable element.

For example, all instances of answer 110 related to an instance (or instances) of question 108 may be retrieved by querying for one value of attribute 220 (i.e., "QuestionID"). Question group 106 further includes attribute 286 which indicates whether question group 106 is reusable. In a reusable question group 106, instances of the same question 108 are given the same identifier across instances of question group 106.

FIG. 1B provides an example of a question 108 in a reusable question group 106 according to an embodiment of

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the invention. Section instances 180A–180D are generated using section 102 of survey schema 160. In each of section instances 180A–180D, Attribute 202 is populated with a value that may be used to identify the instance. For example, section instances 180A–180D have identifiers of "S₁," "S₂," "S₃," and "S₄," respectively. Section instances 180A–180D may be included in the same or a different survey instance 150.

In this example, each of section instances 180A-180D is associated with an instance of question group (i.e., question groups 182A-182D, respectively). Attribute 216 of question group 106 is assigned an identifier value in each of question groups 182A-182D. In the example of FIG. 1B, identifier values for question groups 182A-182D are "QC₁," "QC₂," ¹⁵ "QC₃" and "QC₄," respectively. A different value is used to uniquely identify each instance.

Question groups 182A-182D are reusable such that questions 184A-184D within each have the same identifier. As a member of a reusable component of a survey, questions 184A-184D have the same identifier (i.e., "Q1").

Answers 186A–186D are instances of answer 110 that represent answers to questions 184A–184D, respectively. An identifier is assigned to each of answers 186A–186D (i.e., "A₁," "A₂," "A₃" and "A₄").

It is possible to retrieve answers associated with questions 184A-184D using the same identifier. That is, it is possible to find all answers to a question whose identifier is equal to "Q₁." If each of questions 184A-184D had different identifiers, it would be necessary to identify the value of each identifier prior to retrieving the answers associated with each question.

In one or more embodiments, answer 110 may be be repeatable. Attribute 230 of question 108 identifies an answer as being repeatable.

Process Overview

In one or more embodiments of the invention, schema 160 is used to create multiple survey instances 150. FIG. 10 illustrates a survey definition and generation process flow according to one or more embodiments of the invention.

At block 1002, survey schema 160 is defined. For example, elements of survey schema 160 may be added, deleted or modified. Instances of section 102, question group 106, question 108, answer 110, data object 122, and choice group 112 may be added, deleted or modified, for example. Relationships between elements of survey schema 160 may be added, deleted or modified. For example, an instance of question 108 may be added to or removed from a question group 106. Similarly, a question group 106 may be added to or removed from a section 102. An insert 104 may be added to or removed from a section 102. A choice item 114 may be added to or removed from a choice group 112, and a choice group 112 may be added to or removed from a question 108.

In one or more embodiments of the invention, a new answer type may be added to schema 160. Each answer type has an associated value (e.g., a numeric value). Question 108 and answer 110 include an attribute (e.g., "Answertype," attributes 222 and 260, respectively) that identify the answer type associated with each. In an embodiment of the invention, an answer type associated with question 108 or answer 110 may be changed by modifying an attribute of question 108 or answer 110. Similarly, a data object 122 (e.g., person 128, alias 126 and location 124) that is associated with question 108 or answer 110 may be changed by modifying attribute values (e.g., attributes 228 and 262, respectively).

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At block 1004, a survey instance 150 may be defined using a survey schema 160 defined in block 1004. A survey instance 150 may comprise none or more instances of section 102, question group 106, question 108, choice group 112, insert 104, answer 110, choice item 114, etc. It is 5 possible, in one or more embodiments of the invention, to define survey schema 160 and survey instance 150 simultaneously. For example, it is possible to define an element of schema 160 (e.g., using step 1102) for use in a survey instance 150 at step 1004. A survey designer may make use 10 of the elements of survey schema 160 to define a survey instance 150 as well as define additional elements of survey schema 160.

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In one or more embodiments of the invention, a change to an element of survey schema 160 is reflected in a survey ¹⁵ instance 150 that includes the element. For example, if an instance of question 108 is modified in survey schema 160 (e.g., the text of an instance of question 108 or the answer is changed), the modification is reflected in a survey instance 150 that includes that instance of question 108. The propa-²⁰ gation of a modification in survey schema 160 to a survey instance 150 may be avoided, for example, making modifications to an element (new or existing) that is not included in the survey instance 150. A new element may be created with or without the use of an existing element (or elements) ²⁵ as a template.

At block 1006, data may be captured in elements of survey schema 160 for a survey instance 150. For example, data is captured using instances of answer 110, answertext 120, insert 104 and data object 122. In one or more embodiments of the invention, answer text may be stored in attribute 266 of answer 110 and/or attribute 292 of answertext 120. An association between answer 110 and answertext 120 may be formed by storing an identifier of answer 110 in attribute 290 of answer 120.

In one or more embodiments of the invention, a data object 122 may be used to store all or a portion of an answer. If, for example, the answer is of type person, a person 128 instance may be created and the attributes are populated with the person's information. In one or more embodiments of the invention, a relationship is created between an answer 110 and the person 128 instance by storing the identifier of the person 128 instance in attribute 264 of answer 110.

In one or more embodiments of the invention, one data 45 object 122 may be related to another data object 122 as part of an answer. For example, alias 126 may be related to person 128 and store alias information (e.g., a nickname or other name) associated with a person.

Insert 104 may be used to group answers to questions. For 50 example, a participant may provide more than one set of answers to questions in an instance of section 102. Each set of answers may be associated with an instance of insert 104.

Survey Example

In one or more embodiments of the invention, a graphical user interface is used to define schema 160, define survey instance 150 and capture data from a survey instance 150 (e.g., to perform steps 1002, 1004 and 1006 of FIG. 10). Survey Data Capture GUI

FIG. 11 provides an example of a GUI illustrating a portion of a survey instance 150 that may be used to capture data according to an embodiment of the invention. It should be apparent that embodiments of the invention are not limited to the survey example of FIG. 11.

In the example of FIG. 11, window 1102 depicts a portion of a survey instance 150 used to capture holocaust survivor information. Each survivor (i.e., survey participant) is asked for biographical information including general information in addition to prewar, wartime and post-wartime experiences. Data may be entered using window 1102 from a printed version of a survey instance 150, or directly by a participant, for example. Area 1104 provides a list of sections 102 of the survey instance 150. According to one or more embodiments of the invention, a user enters survey data by selecting, or opening, sections (e.g., sections 1106 and 1108) in area 1104.

Section 1108 is opened which indicates that it has been selected while sections 1106 are closed or collapsed in this example. In one or more embodiments of the invention, display 1110 identifies instances of question group 106 of an open instance of section 102 (e.g., section 1108) is displayed. An instance of question group 106 in display 1110 may be selected such as question group selection 1112 which is shaded to indicate that it has been selected. Instances of question 108 that are associated with question group selection 1112 are displayed in area 1114 of window 1102.

Area 1114 comprises columns 1116, 1118 and 1120. In this embodiment of the invention, answer type may also be displayed as a further prompt to the user. For example, entry 1130A indicates that the answer that is expected is a boolean answer (e.g., "yes" or "no"). Entry 1130B indicates that a plain text answer is expected for the question. Entries 1130C and 1130D indicate that instances of data object 122 (i.e., location 124 and person 128) are the expected type for these questions.

Answer text is displayed in columns 1118 and 1120. Instances of choice item 114 may be displayed in area 1122. Thus, for example, when an instance of question 108 displayed in column 1116 is selected, instances of choice item 114 that are associated with the selected instance of question 108 are displayed in area 1122.

Area 1124 may be used to display possible answer selections associated with a question that is displayed in area 1114. For example, entry 1130D expects an instance of person 128 as an answer. Column 1126 may be used to display existing instances of person 128 that may be selected as an answer. Column 1128 of area 1124 may also be used to enter a proposed answer to a question. The proposed answer is retained, subsequently reviewed, and either accepted, or rejected. If accepted, the proposed answer becomes an answer to the question and may become a selectable answer to another question. If rejected, a proposed answer is removed, and another answer may be provided. Survey Definition GUI

FIG. 3 illustrates an example of a window in a GUI used to modify instances of section 102 that comprise a survey instance 150 according to an embodiment of the invention. In display 302, a window is shown which is comprised of instances of section 102, question group 106 and question 108.

Panel 304 displays instances of section 102 (sections 306 and 308) within an instance of form 150. Sections 306 are collapsed such that instances of question group 106 are not displayed. Section 308 is expanded to display instances of question group 106 within section 308 (e.g., question groups 310 and 312). Question group 312 is selected in panel 304 such that instances of question 108 are displayed in panel 316 and the name (i.e., section name attribute 280) is displayed in panel 314.

Panel 316 displays attribute values associated with instances of question 108. Column 320 of panel 316 identifies the question text (i.e., attribute 226) of five instances associated with question 108. Column 318 of panel 316

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identifies answer types (e.g., retained in attribute 222) associated with each question. Columns 322, 326 and 328 display values for attributes 284, 228 and 230 of question 108, respectively. Column 324 displays the name of an instance of choice group 112 that groups choices, or answer selections, for a question.

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selections, for a question. Using buttons 330, 332, 334 and 336, a survey developer may add a section, delete a section, add a question, delete a question respectively. FIGS. 4A-4B illustrate add section and question panels according to an embodiment of the invention.

Referring to FIG. 4A, panel 402 may be used, in one or more embodiments of the invention, to add a section (i.e., to survey schema 160 and/or survey instance 150). Pull down menu area 404 is used to display instances of section 102 to select a parent section where the new instance of section 102 ¹⁵ is a subsection of another instance of section 102. Text field 406 may be used to enter a name (e.g., attribute 280) of the new instance of section 102. Check box 412 may be selected to specify whether an instance of insert 104 is associated with an instance of section 102. Pull down menus 408 may 20 be used to display instances of insert 104 to identify types of inserts that are allowed. The save button 410 is used to save the new instance of section 102 in survey schema 160.

A new instance of question group 106 may be added, in one or more embodiments of the invention, using panel 422 of FIG. 4B. Pull down menu 424 displays instances of section 102 to select a section 102 that includes an instance of question group 106 as a member. Text field 426 may be used to enter a title for an instance of question group 106. Check box 430 identifies the instance of question group 422 as a reusable question group (i.e., set attribute 286 of question group 106). Save button 428 commits the new instance to survey schema 160 as an instance of question group 106.

Instances of question 108 may be added, modified or deleted from survey schema 160 or a survey instance 150. ³⁵ FIG. 5 provides an example of a display (i.e., panel 502) that is used to edit an instance of question 108 according to an embodiment of the invention. Fields 516 and 504 identify the name associated with an instance of question group 106 and the text of the question associated with an instance of 40 question 108, respectively. An answer type may be selected from answer type selections 510. Where the answer type is an object, pull down menu 512 may be used to display instances of object 122 for selection. Pull down menu 514 may be used to display instances of choice group 112 to 45 associate answer choices to an instance of question 108.

FIG. 6 illustrates a user interface used to edit an instance of choice group 112 according to one or more embodiments of the invention. Display 602 includes a listing, in panel 604, of instances of choice group 112. Selecting one of the entries 50 in panel 604 causes information associated with the selected instance of choice group 112 to be displayed in panels 610 and 614. Panel 616 displays instances of type 118 and keyword 116 for selection.

Panel 610 identifies instances of choice item 114. A choice 55 or class of choices may be dragged from panel 616 to panel 614. A choice (e.g., an instance of keyword 116) that is dragged from panel 616 to panel 614 is displayed in panels 614 and 610. A class of choices (e.g., type 118) is displayed in panel 614 and the choices within the class are displayed 60 in panel 610. None or more of the choices within a class of choices may be excluded from the choices by dragging the choice from panel 610 to trash 618.

Entry 608 in panel 610 indicates that the instance of choice item 114 derives from a class of choices. Entry 612 65 of panel 614 identifies a class of choices (i.e., "concentration camps").

In one or more embodiments of the invention, an answer to a question may comprise a single answer or multiple answers. Answer 110 includes an attribute (e.g., attribute 266, "answertext") that may store a single answer such as a date, a boolean (e.g., "yes" or "no"), currency and text. Alternatively, answer 110 may contain a pointer to an instance of object 122 that comprises one or more attributes that contain the answer. Examples of object 122 include a person object, alias object and location object. FIGS. 7, 8 and 9 provide examples of a GUI for entering object information such as person, alias and location objects according to an embodiment of the invention.

Referring to FIG. 7, panel 702 may be used, in one or more embodiments of the invention, to enter information about a person. Pull down menu 704 is used to display and identify a relationship between the person surveyed and the person that is a part of the answer. Fields 706 are used to enter information related to the person answer. Text field 708 may be used to enter a note about the person. Pull down menus 710 may be used to identify an alias associated with the person answer (e.g., a name to which the person is also known).

FIG. 8 provides an example of a panel 802 that may be used to enter alias object information. Pull down menu 804 may be used to display and identify another survey element (e.g., person object) for which the alias object is an alias. Fields 806 identify the alias name, title, etc. Pull down menu 808 is used to display and select an alias type. Text field 810 may be used to input additional notes.

In an embodiment of the invention, if an answer to a question is a location, a location object is used. FIG. 9 provides a display of a panel 902 that may be used to specify a location answer according to one or more embodiments of the invention.

Pull down menu 906 is used to display and select a location type. Fields 908 are used to enter information associated with the attributes of a location object. Column 910 is used to receive a text entry. Column 912 may be used to display a selection made from class items associated with a given attribute. Panel 904 may be used to display choices for one of the fields in column 912 that has been selected. A choice is selected, in one or more embodiments of the invention, by dragging it from panel 904 to the selected field (e.g., field 914).

Catalogue

In one or more embodiments of the invention, catalogue 1304 used in one or more embodiments of the invention comprises catalogue elements. As discussed above, one catalogue element, a phrase (e.g., phrase 1502 or phrase 1906 of FIGS. 19A-19C), may be associated with a portion of multimedia data 1306. A phrase has a plurality of attributes some of which are attribute elements. The attribute elements that are attributes of a phrase include keyword, person, image, video (e.g., documentary footage), proposed person, and proposed keyword. The keyword, person, image, proposed person and proposed keyword attribute elements. For example, attribute elements that are attributes of the keyword attribute element include thesaural keyword, thesaural person, keyword, and type. An index is built on the attributes and attribute elements. The index can be used to navigate through the catalogue (e.g., search for phrases).

FIG. 19A provides an example of catalogue and attribute elements and their attributes according to an embodiment of the invention. Segment 1904 (also referred to herein as segment 1408) is a container element. It can contain other

ed in attribute 22

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elements. For example, segment 1904 can contain one or more instances of phrase 1906. In the invention, input data is decomposed into one or more pieces, or fragments. An instance of phrase 1906 is associated with each input data fragment. Phrase 1906 is a catalogue element. Phrase 1906 has one or more attributes and/or attribute elements on which an index is built. The index can be used to navigate through the catalogue.

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An attribute of phrase 1906 is keyword 1910 (also referred to herein as keyword 1406). An instance of phrase 1906 can be associated with one or more instances of keyword 1910. Keyword 1910 further defines aspects of an input data fragment. Preferably, an attribute of keyword 1910 identifies content, or substance, for an input data fragment. The content or substance identified by keyword 1910 is preferably expressed as a single word. However, ¹⁵ content or substance can be expressed using multiple words.

To illustrate, the input data can be a videotape. The videotape is, for example, that of an interview, or survey, conducted with a survivor of the Holocaust. The interview is broken down into the interviewee's pre-war, war-time, and 20 post-war experiences. The interviewee's pre-war experience can be broken down into topics (e.g., each of which may be instantiated as a section 126). A pre-war topic might be the interviewee's personal life, for example. Each topic can be broken down into sub-topics (each of which may be instantiated as subsections, or instances of section 126). In the example of the interviewee's personal life, a sub-topic might be the interviewee's relationship with family members, experiences at school, etc. Each sub-topic contains an information item. To further illustrate using the current example, 30 an information item might be home, brother, sister, teacher, etc. In this example, the topic of the interviewee's personal life becomes an instance of segment 1904. The interviewee's relationship with family members and experiences at school become instances of phrase 1906. The words home, brother, $_{35}$ sister, and teacher become instances of keyword 1910. The words home, brother, sister and teacher provide information regarding the content or substance of an input data fragment.

An instance of keyword 1910 can be associated with one or more instances of thesaural keyword 1912. An instance of 40 thesaural keyword 1912 is an instantiation of an instance of keyword 1910. Thesaural keyword 1912 specifies a value or label for its associated instance of keyword 1910. Thesaural keyword 1912 can be one or more words. Thesaural keyword 1912 can be used, for example, to specify a value for an instance of keyword 1910 in a particular language. Multiple instances of thesaural keyword 1912 can be used to express the value of an instance of keyword 1910 in multiple languages. Alternative expressions for the value of an instance of keyword 1910 can be retained by instances of thesaural keyword 1912 as well. Thus, the content or substance of an input data fragment can be expressed in multiple languages with a plurality of alternative expressions in each language. A preference can be associated with an instance of thesaural keyword 1912 to identify it as a preferred alter- 55 native in a given language

FIG. 19C provides an illustration of instances of keyword 1910 and a plurality of associated label attributes- according to an embodiment of the invention. A grid is displayed with axes 1986 and 1988. Instances of keyword 1910 are displayed along a vertical axis, axis 1986. A horizontal axis, axis 1986 contains examples of languages in which a label associated to an instance of keyword 1910 can be represented. Instances of thesaural keyword 1912 are depicted at the intersections of these two axes.

Each instance of thesaural keyword **1912** is an instantiation for an associated instance of keyword **1910**. Each 18

instance of thesaural keyword 1912 contains a label that can be used as the label for an instance of keyword 1910. For example, thesaural keywords 1990A-1990D, 1991A-1991E, 1992A-1992B, and 1993A-1993B are instantiations of Keyword Instance One. Similarly, thesaural keywords 1994A-1994B, 1995A-1995B, 1996A-1996C, 1997A-1997B are instantiations of Keyword Instance Two:

An instance of thesaural keyword 1912 can be an instantiation of an instance of keyword 1910 in a particular language. For example, thesaural keywords 1991A–1991E are English instantiations of Keyword Instance One. Thesaural keywords 1991A–1991E provide alternate instantiations for Keyword Instance One. That is, each contains a English-language label for Keyword Instance One. Thus, Keyword Instance One can be associated with a different English-language label based on which instance of thesaural keywords 1991A–1991E is used to supply the label for Keyword Instance One. Similarly, Keyword Instance is associated with English-language alternatives contained in thesaural keywords 1995A–1995B.

Thus, within a language, an instance of keyword 1910 can have alternate instantiations of thesaural keyword 1912. An instance of keyword 1910 can also have alternate instantiations of thesaural keyword 1912 across multiple languages as exemplified in FIG. 19C. Alternate instantiations for Keyword Instance One exist in French (e.g., thesaural keywords 1990A-1990D), German (e.g., thesaural keywords 1992A-1992B), and Russian (e.g., thesaural keywords 1993A-1993B), for example. Similarly, Keyword Instance Two has alternative instantiations in French (e.g., thesaural keywords 1994A-1994B), German (e.g., thesaural keywords 1994A-1994C), Russian (e.g., thesaural keywords 1997A-1997B).

A preferred alternate instantiation of an instance of keyword 1910 can be identified in each of the languages in which the keyword instance is represented. Thus, for example, thesaural keyword instance 1990C can be identified as the preferred instantiation of Keyword Instance One for the French language. Similarly, thesaural keyword instances 1991B, 1992A, and 1993B can be the preferred English, German, and Russian (respectively) instantiations for Keyword Instance One. Thesaural keyword instances 1994A, 1995B, 1996C, and 1997A can be the preferred French, English, German, and Russian instances (respectively) for Keyword Instance Two.

Referring to FIG. 19A, type 1916 (also referred to herein as type 1504) is associated with keyword 1910. Type 1916 provides attribute information for keyword 1910. Ty ne 1916 can be used to include instances of keyword 1910 in a classification or category. In other words, an instance of keyword 1910 is an instantiation of an instance of type 1916. For example, an instance of keyword 1910 having an attribute of "Ford Bronco" could be associated with a type instance having an attribute of "car". Another instance of keyword 1910 having an attribute of "Mustang" can also be associated with the same instance of type 1916. Both instances of keyword 1910 are instances of a car. One or more instances of type 1916 can be associated with an instance of keyword 1910. In the preferred embodiment, a hierarchy is established for instances of type 1916. An instance of type 1916 can be a parent to or a child of another other instances of type 1916. An instance of keyword 1919 that is associated with an instance of type 1916 is also associated with the hierarchy of the instance of type 1916.

Other attribute elements that can be associated with an input data fragment via phrase 1906 include person 1918,

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and image 1920. Person 1918 identifies an individual associated with an input data fragment. In the previous example, a personal life experience may contain a reference to a person. An instance of person 1918 can be used to identify the reference. Person information 1926 provides attribute information for an instance of person 1918. An instance of image 1920 is used for data such as a still photograph that is referenced in the input data.

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In the preferred embodiment of the invention, some elements, such as keyword 1910 and person 1918, must be approved before becoming actual instances. Prior to approval, the instances are considered to be proposed instances. For example, proposed keyword 1914 and proposed person 1924 are attribute elements used to identify instances of keyword 1910 and person 1918 that have not yet been approved as actual instances. Proposed instances are reviewed and a determination is made whether to transform the proposed attribute element into an actual attribute element or to otherwise dispose of the proposed attribute element.

Person Information 1926 is an attribute element associated with person 1918. A "one-to-one" relationship (relationship 1936) exists between person information 1926 and person 1918. Person information 1926 contains attributes for person 1918. The attributes of person information 1926 contain information for a person having an instance of person 1918.

Events can also be associated with input data. Each event becomes an instance of event **1908**. As previously described, input data can be decomposed into input data fragments each of which is associated with an instance of phrase **1906**. Input data can also be decomposed into input data fragments that are associated with instances of event **1908**. A type attribute is associated with event **1908**. Examples of an event type in the preferred embodiment include a segment, phrase, break between tapes, quality assurance details, facts, and miscellaneous (or other). An event can be used to access the associated input data fragment. An instance of event **1908** can be used to access an input data fragment. For example, an instance of event **1908** of type phrase can be used to locate the input data fragment associated with an instance of phrase **1906**.

Another example of an event type is a quality assurance event. In the preferred embodiment of the invention, a quality assurance mechanism can be used to monitor the 45 quality of the input data and provide feedback. Quality assurance events are used to mark the input data. An event can mark a positive, negative, or neutral quality assurance event. For example, video input data is being collected in multiple interviews. Each interview can be reviewed to 50 identify parts of the interview process that are noteworthy. Where, for example, an interviewer does not follow-up with an interviewee to obtain additional details, a negative quality assurance event can be created. A positive event can be similarly created. An event that is neither positive nor negative (i.e., informational or neutral) can also be created. A report of quality assurance events can be generated and used to provide feedback to the persons involved in collecting the input data

Relationships of Elements

In the preferred embodiment, catalogue and attribute elements are interrelated. Relationships are formed between two or more elements using the invention. FIG. 19B illustrates relationships formed between the elements identified in FIG. 19A according to an embodiment of the invention. 65 A "many" relationship is signified using a double arrow. A "one" relationship is identified using a single arrow. Rela20

tionship 1928, for example, is a "many-to-many" relationship. That is, one or more instances of segment 1904 can be related to many instances of phrase 1906. Alternatively stated, segment 1904 contains one or more instances of phrase 1906. One instance of phrase 1906 can be related to multiple instances of segment 1904. That is, an instance of phrase 1906 is contained within one or more instances of segment 1904. As illustrated by relationship 1946, one or more instances of type 1916 can be related to other instances of type 1916.

A "many-to-many" relationship (relationship 1930) exists between phrase 1906 and proposed keyword 1914, keyword 1910, image/video 1920, proposed person 1924 and person 1918. An instance of phrase 1906 can be related to a set of proposed keywords, a set of keywords, a set of images and/or video, a set of proposed persons, and a set of persons, each set having zero or more members. Further, an instance of proposed keyword 1914, keyword 1910, image 1920, proposed person 1924 or person 1918 can be related to more than one instance of phrase 1906.

Relationship 1938 illustrates a "many-to-many" relationship between keyword 1910 and thesaural keyword 1912. An instance of keyword 1910 can be associated with one or more instances of thesaural keyword 1912. The same instance of thesaural keyword 1912 can be associated with one or more instances of keyword 1910.

As previously stated, instances of type 1916 can be interrelated with other instances of type 1916 via a type hierarchy. Relationship 1944 identifies an instance of type 1916 as a parent or child of another instance of type 1916. Similarly, the instances of keyword 1910 are interrelated via a keyword hierarchy. Keyword 1910 can be related to other instances of keyword 1910 via relationship 1942. Relationship 1942 identifies an instance of keyword 1910 as a parent or child of another instance of keyword 1910. Relationship 1944 relates keyword 1910 and type 1916. That is, one instance of keyword 1910 is related to an instance of type 1916. Conversely, an instance of type 1916 can be associated with multiple instances of keyword 1910.

Further, an instance of keyword 1910 can be related to many instances of type 1916 via relationships 1942 and 1946. That is, an instance of keyword 1910 has a type that is associated with an instance of type 1916. In addition, the instance of keyword 1910 inherits the types associated with the children of its associated instance of type 1916.

Person 1918 and person information 1926 have a "oneto-one" relationship via relationship 1928. Person 1918 and thesaural person 1922 are related via relationship 1934. Person 1918 can be associated with multiple instances of thesaural person 1922. An instance of thesaural person 1922 can be related to multiple instances of person 1918 via relationship 1934.

Segment 1904 is a container element. That is, as illustrated by relationship 1928, segment 1904 can contain multiple instances of phrase 1906. Segment 1904 is defined by the set of elements that it contains. For example, segment 1904 is, for example, a chapter segment, a testimony segment, or a general segment. Instances of phrase 1906 can be grouped in the order in which they occur in the input data in a chapter segment. As a testimony segment, segment 1904 contains a grouping of instances of 1904 associated with the input data. For example, a testimony segment can contain all instances of segment 1904 that are associated with a videotaped interview. Person 1918 can be related to segment 1904 via relationship 1932. At least one instance of person 1918 is related to an instance of segment 1904 that is a testimony segment via relationship 1932.

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Relationship 1950 illustrates the relationship between instances of segment 1904 (i.e., a testimony segment) that act as a container for other instances of segment 1904. A general segment contains a set of instances of phrase 1906 that are not necessarily related to particular input data. A general segment can be a collection of phrases that meet a certain criteria. For example, a general segment can contain instances of phrase 1906 that are related to an instance of keyword 1910 having a value of "teacher".

Segment 1904 therefore identifies a group of catalogue 10 elements (e.g., phrase 1906. An instance of segment 1904 can identify all catalogue element instances. Other instances of segment 1904 can identify a subset of catalogue elements. Thus, for example, an instance of segment 1904 can identify all instances of phrase 1906 or a subset of all of the instances 15 of phrase 1906. The set including all instances of phrase 1906 is a catalogue. A smaller catalogues that contain a subset of all instances of phrase 1906 is also a catalogue Within a catalogue, a smaller catalogue can be created by, for example, a query operation or user designation.

A set of catalogue elements can be identified by querying the attribute elements, for example. A query operation can be performed on the attribute elements to examine other attribute elements associated with a catalogue element. A query operation identifies a set of cataloguing elements (e.g., 25 instances of phrase 1906) that satisfy the criteria specified in the query. A set of cataloguing elements identified in a query are grouped in an instance of segment 1904. A user can also specify a collection of phrases 1906 that can be grouped in an instance of segment 1904. Attributes

FIG. 19A provides examples of attributes for catalogue and attribute elements according to an embodiment of the invention. Segment 1904 contains an identifier (ID), a descriptive phrase, and a set of phrases, for example. The 35 phrases related to an instance of segment 1904 are included in the segment instance's set of phrases. A set is formed by creating relationships between the elements. FIG. 19B illustrates examples of the relationships that exist between elements in an embodiment of the invention. The relation- 40 ships that form a set can be implemented using any of the known techniques known in the art. For example, the relationships can be implemented in a programming language using pointers. In a relational database management system, for example, the relationships can be formed using 45 relations and primary and foreign keys.

Referring to FIG. 19A, phrase 1906 includes an input data ID (e.g., identifies the input data from which the phrase was generated), an ID, a descriptive phrase, In/Out timecodes (i.e., a corresponding location within the input data), a set of 50 keywords, images, persons, proposed keywords, and pro-posed persons. Keyword 1910 includes an ID, and sets of types, thesaural keywords, child keywords and parent keywords. The child and parent keyword set form relationships for the keyword hierarchy. The set of thesaural keywords 55 related to keyword 1910 contain keyword values or labels for keyword instance.

Person 1918 includes an ID, a primary name, an occupation, date of birth, and a set of proposed persons. Person information 1926 contains a person ID for the associated instance of person 1918. Person information 1926 contains one or more attributes for the associated instance of person 1918. The attribute information can vary depending on the multimedia information being catalogued. For example, the catalogued multimedia data may consist of 65 interviews with individuals. An instance of person 1918 can be instantiated and associated with an interviewee. Person

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information 1926 associated with the instance of person 1918 can then include biographical information of the interviewee. The multimedia data videotaped sporting events. In this case, an instance of person 1918 can be created for a person associated with the sporting event (e.g., player, referee, and broadcasting personnel). An instance of person information 1926 associated with the instance of person 1918 can include statistical information associated with the participant.

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An event 1908 includes an ID, type (e.g., segment, phrase, interviewer, videographer, fact, or other), sub-type (e.g., a positive, negative, or informational event), timecodes, and a comment (or descriptive note).

Thesaural keyword 1912 includes an ID, a keyword ID (i.e., the ID for an instance of keyword 1910 for which the thesaural keyword instance is an alternative), a label (i.e., the value of the keyword instance to which the thesaural instance is related), a language of choice identifier (or language ID), a preferred flag, and a characteristic (or class) If set, the preferred flag specifies that the thesaural keyword instance is the preferred alternative for the related keyword instance in the language specified by the language ID. The characteristic attribute further defines the thesaural keyword instance. It can be used to identify that thesaural keyword instance is a slang word, for example.

An ID, timecode and locator are included as attributes for image 1920. The locator attribute is used to locate the digitized image, for example. Proposed keyword 1914 includes an ID and a label. It is also possible to include the attributes contained in keyword 1910 in proposed keyword 1914. Thus, the user that is proposing a new keyword can enter as much information regarding the proposed keyword. Proposed person 1924 includes an ID and name attribute. Like proposed keyword 1914, the attributes associated with person 1918 can be included in proposed person 1924. Type 1916 includes an ID and a label.

Elements and their relationships can be managed using a cataloguing mechanism and a relationship management mechanism. The cataloguing mechanism includes a user interface that includes a series of screens. During cataloguing, a user (e.g., a cataloguer) reviews the input data and causes elements to be instantiated and associated with the input data and other elements. Elements that already exist can be associated with the input data during cataloguing. In addition, a cataloguer can propose new elements and relationships. The relationship management facility is used to review the elements and relationships proposed by a cataloguer. The relationship management facility can also be used to create new elements and relationships

Embodiment of Computer Execution Environment (Hardware)

An embodiment of the invention can be implemented as computer software in the form of computer readable code executed on a general purpose computer such as computer 1200 illustrated in FIG. 12, or in the form of bytecode class files executable within a Java runtime environment running on such a computer. A keyboard 1210 and mouse 1211 are coupled to a bidirectional system bus 1218. The keyboard and mouse are for introducing user input to the computer system and communicating that user input to processor 1213. Other suitable input devices may be used in addition to, or in place of, the mouse 1211 and keyboard 1210. I/O (input/output) unit 1219 coupled to bidirectional system bus 1218 represents such I/O elements as a printer, A/V (audio/ video) I/O, etc.

Computer 1200 includes a video memory 1214, main memory 1215 and mass storage 1212, all coupled to

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bi-directional system bus 1218 along with keyboard 1210, mouse 1211 and processor 1213. The mass storage 1212 may include both fixed and removable media, such as magnetic, optical or magnetic optical storage systems or any other available mass storage technology. Bus 1218 may contain, for example, thirty-two address lines for addressing video memory 1214 or main memory 1215. The system bus 1218 also includes, for example, a 32-bit data bus for transferring data between and among the components, such as processor 1213, main memory 1215, video memory 1214 and mass storage 1212. Alternatively, multiplex data/address lines may be used instead of separate data and address lines.

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In one embodiment of the invention, the processor 1213 is a microprocessor manufactured by Motorola, such as the 680X0 processor or a microprocessor manufactured by Intel, such as the 80X86, or Pentium processor, or a SPARC microprocessor from Sun Microsystems, Inc. However, any other suitable microprocessor or microcomputer may be utilized. Main memory 1215 is comprised of dynamic random access memory (DRAM). Video memory 1214 is a 20 dual-ported video random access memory. One port of the video memory 1214 is coupled to video amplifier 1216. The video amplifier 1216 is used to drive the cathode ray tube (CRT) raster monitor 1217. Video amplifier 1216 is well known in the art and may be implemented by any suitable apparatus. This circuitry converts pixel data stored in video memory 1214 to a raster signal suitable for use by monitor 1217. Monitor 1217 is a type of monitor suitable for displaying graphic images. Alternatively, the video memory could be used to drive a flat panel or liquid crystal display 30 (LCD), or any other suitable data presentation device.

Computer 1200 may also include a communication interface 1220 coupled to bus 1218. Communication interface 1220 provides a two-way data communication coupling via a network link 1221 to a local network 1222. For example, 35 if communication interface 1220 is an integrated services digital network (ISDN) card or a modem, communication interface 1220 provides a data communication connection to the corresponding type of telephone line, which comprises part of network link 1221. If communication interface 1220 40 is a local area network (LAN) card, communication interface 1220 provides a data communication connection via network link 1221 to a compatible LAN. Communication interface 1220 could also be a cable modem or wireless interface. In any such implementation, communication inter- 45 face 1220 sends and receives electrical, electromagnetic or optical signals which carry digital data streams representing various types of information.

Network link 1221 typically provides data communication through one or more networks to other data devices. For example, network link 1221 may provide a connection through local network 1222 to local server computer 1223 or to data equipment operated by an Internet Service Provider (ISP) 1224. ISP 1224 in turn provides data communication services through the world wide packet data communication 55 network now commonly referred to as the "Internet" 1225. Local network 1222 and Internet 1225 both use electrical, electromagnetic or optical signals which carry digital data streams. The signals through the various networks and the signals on network link 1221 and through communication interface 1220, which carry the digital data to and from computer 1200, are exemplary forms of carrier waves transporting the information.

Computer 1200 can send messages and receive data, including program code, through the network(s), network 65 link 1221, and communication interface 1220. In the Internet example, remote server computer 1226 might transmit a

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requested code for an application program through Internet 1225, ISP 1224, local network 1222 and communication interface 1220.

The received code may be executed by processor 1213 as it is received, and/or stored in mass storage 1212, or other non-volatile storage for later execution. In this manner, computer 1200 may obtain application code in the form of a carrier wave.

Application code may be embodied in any form of computer program product. A computer program product comprises a medium configured to store or transport computer readable code or data, or in which computer readable code or data may be embedded. Some examples of computer program products are CD-ROM disks, ROM cards, floppy disks, magnetic tapes, computer hard drives, servers on a network, and carrier waves.

The computer systems described above are for purposes of example only. An embodiment of the invention may be implemented in any type of computer system or programming or processing environment, including embedded devices (e.g., web phones, etc.) and "thin" client processing environments (e.g., network computers (NC's), etc.) that support a virtual machine.

Thus, a method and apparatus for cataloguing multimedia data using surveying data has been described in conjunction with one or more specific embodiments. The invention is defined by the claims and their full scope of equivalents. What is claimed is:

1. In a computer system, associating multimedia data with surveying data comprising:

obtaining an association between survey data and at least one catalogue element of a catalogue, said at least one catalogue element associated with said multimedia data:

searching said survey data to identify said at least one catalogue element;

identifying said multimedia data using said at least one catalogue element.

2. The surveying method of claim 1 wherein said survey data comprises at least one survey element, said survey element comprises at least one attribute that associates said at least one survey element with said at least one catalogue element.

3. The method of claim 2 wherein said survey data comprises at least one question element.

4. The method of claim 2 wherein said survey data comprises at least one answer element.

5. The method of claim 2 wherein said at least one attribute identifies at least one segment element of said catalogue.

6. The method of claim 1 wherein said catalogue element is a phrase element.

7. The method of claim 1 wherein said catalogue element is a keyword, said identifying said multimedia data further comprises:

identifying at least one phrase associated with said keyword, said at least one phrase being associated with said multimedia data.

8. The method of claim 1 wherein said catalogue element is a type, said identifying said multimedia data further comprises:

identifying at least one keyword associated with said type; identifying at least one phrase associated with said at least one keyword, said at least one phrase being associated

with said multimedia data.

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9. The method of claim 1 wherein said catalogue element is a segment, said identifying said multimedia data further comprises:

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identifying at least one phrase associated with said segment, said at least one phrase being associated with 5 said multimedia data.

10. A memory for storing survey information accessible by at least one computer program being executed on a machine, said survey information comprising:

- a first set of elements stored in said memory, said first set ¹⁰ of elements usable to retain survey data;
- a second set of elements stored in said memory, said second set of elements being associated with at least one of said first set of elements, said second set of elements usable to retain catalogue data;
- multimedia data in said memory, said multimedia data associated with said at least one of said first set of elements using said second set of elements

11. The memory of claim 10 wherein said first set of $_{20}$ elements comprises at least one survey element, said survey element comprises at least one attribute that associates said at least one survey element with said at least one catalogue element.

12. The memory of claim 11 wherein said first set of 25 said catalogue element is a phrase element. elements comprises at least one question element.

13. The memory of claim 11 wherein said first set of elements comprises at least one answer element.

14. The memory of claim 11 wherein said at least one attribute identifies at least one) segment element of said 30 second set of elements.

15. The memory of claim 10 wherein said second set of elements comprises a keyword, said second set of elements further comprising:

at least one phrase associated with said keyword, said at 35 least one phrase being associated with said multimedia data.

16. The memory of claim 10 wherein said second set of elements comprises a type element, said memory further comprising:

at least one keyword associated with said type;

at least one phrase associated with said at least one keyword, said at least one phrase being associated with said multimedia data

17. The memory of claim 10 wherein said second set of 45 elements comprises a segment, said memory further comprising:

at least one phrase associated with said segment, said at least one phrase being associated with said multimedia data.

18. A computer program product comprising:

a computer usable medium having computer readable program code embodied therein configured to associate multimedia data with surveying data comprising:

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- computer readable program code configured to cause a computer to obtain an association between survey data and at least one catalogue element of a catalogue, said at least one catalogue element associated with said multimedia data;
- computer readable program code configured to cause a computer to search said survey data to identify said at least one catalogue element;
- computer readable program code configured to cause a computer to identify said multimedia data using said at least one catalogue element.

19. The computer program product of claim 18 wherein said survey data comprises at least one survey element, said survey element comprises at least one attribute that associates said at least one survey element with said at least one catalogue element.

20. The computer program product of claim 19 wherein said survey data comprises at least one question element.

21. The computer program product of claim 19 wherein said survey data comprises at least one answer element.

22. The computer program product of claim 19 wherein said at least one attribute identifies at least one segment. element of said catalogue.

23. The computer program product of claim 18 wherein

24. The computer program product of claim 18 wherein said catalogue element is a keyword, said computer readable program code configured to cause a computer to identify said multimedia data further comprises:

computer readable program code configured to cause a computer to identify at least one phrase associated with said keyword, said at least one phrase being associated with said multimedia data.

25. The computer program product of claim 18 wherein said catalogue element is a type, said computer readable program code configured to cause a computer to identify said multimedia data further comprises:

- computer readable program code configured to cause a computer to identify at least one keyword associated with said type;
- computer readable program code configured to cause a computer to identify at least one phrase associated with said at least one keyword, said at least one phrase being associated with said multimedia data.

26. The computer program product of claim 18 wherein said catalogue element is a segment, said computer readable program code configured to cause a computer to identify said multimedia data further comprises:

computer readable program code configured to cause a computer to identify at least one phrase associated with said segment, said at least one phrase being associated with said multimedia data.

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UNITED STATES PATENT APPLICATION

FOR

METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA

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09/659987

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

This invention relates to the collection and entering of data associated with a survey or other data collection mechanism using a computer system and the use of the survey data in cataloguing multimedia data.

BACKGROUND ART

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Data is sought and collected from different sources and used to, for example, assist in making economic, marketing, etc. decisions. The collected data may be used to supplement historical information with personal experiences and to identify behavioral patterns. For example, the United States government collects census data from households that may be used by governmental entities and community organizations to allocate funds, develop social programs as well as by the business sector to locate factories, shopping centers, etc. Surveys may also be conducted by businesses to determine consumers' attitudes and behavior to assist in the research, development and marketing of products.

In a survey, data collection is typically conducted by posing a set of questions to a set of participants in person, over the phone or in writing, for example. The answers are typically recorded in written form and processed or analyzed in some manner. Existing techniques for analyzing data lack the ability to generate a cohesive data, or knowledge, base of responses across surveys which would facilitate data analysis. Further, existing systems do not provide the ability to relate a survey data base to a multimedia system.

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Increasingly, computer systems are being used to present multimedia material. Such material is usually in the form of text, graphics, video, animation, and sound. Two or more of these data types are usually combined to form the multimedia data presented by the computer system. A computer system that is used to present multimedia material is called a multimedia system.

A cataloguing mechanism is useful to catalogue multimedia data in a multimedia system such that the multimedia data may be identified and retrieved by searching the catalogue. For example, it is beneficial to be able to associate descriptive information of a catalogue to segments of multimedia data. The descriptive information may be queried and used to identify relevant segments of multimedia data.

A problem exists in capturing descriptive information that may be used to catalogue multimedia data. One mechanism that has been used to collect information is a survey. It would be beneficial to be able to incorporate the results of a survey into a catalogue that may be used to search and retrieve multimedia data.

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SUMMARY OF THE INVENTION

A method and apparatus is described wherein survey data collected from different survey versions may be retained in a cohesive data, or knowledge, base that may be used to catalogue multimedia data. A survey schema is defined that comprises survey elements that may be used to define surveys and capture survey data. In one or more embodiments of the invention, survey data comprising answers to survey questions is stored in one or more elements of the survey schema. Answer elements of the survey schema may be associated with one or more elements of a catalogue of multimedia data. The linked survey data may be used alone or in combination with the cataloguing system to retrieve multimedia data.

In addition to retaining survey answers, a survey schema comprises survey elements that may be used to build different forms or versions of a survey (a survey instance). Examples of elements of a survey schema used in embodiments of the invention include: section, question group, question, answer, data object, insert, choice group, choice item, for example. A section may be used to group question groups, inserts and sections. An insert may be used to capture repeatable data. A question group may be used to group questions. An answer is associated with each question and may also be associated with an insert. Any combination of questions may be used with any combination of data types for answers to the questions.

According to one or more embodiments of the invention, an answer value may be stored as an attribute of an answer element or as attribute (or attributes) of another element associated with an answer element (e.g., a data

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object or answertext element). Examples of answer and data object types include text, boolean, date, location, movement, person and keyword. New answer and data object types and data objects may be dynamically added to the survey schema. For example, currency and health types may be added to capture currency and health answers.

In one or more embodiments of the invention, survey data may be associated with elements of a multimedia data catalogue. In one or more embodiments of the invention, survey data comprising a survey, survey answers or both may be queried and the results of the query used to identify multimedia data. A survey schema comprises elements that may be used to build a survey (or surveys) and store answers to survey questions. Elements of the survey may be linked to elements of a multimedia catalogue that are associated with the multimedia data. Survey data may be queried to identify a catalogue element and the multimedia data associated with the catalogue element.

In one or more embodiments of the invention, a phrase element of the catalogue is associated with a multimedia data item and with other catalogue elements such as keywords and persons. In one or more embodiments of the invention, an answer and/or question stored in a survey schema may comprise, or otherwise be associated with, catalogue elements such as a keyword (or keywords) and/or a person (or persons). By identifying a catalogue element (or catalogue elements) in a query operation on an answer or question in a survey schema, it is possible to identify phrase elements. Thus, in one or more embodiments of the invention, an association is formed between survey data and multimedia data via one or more catalogue elements.

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BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1A illustrates a schema comprising survey elements according to an embodiment of the invention.

Figure 1B provides an example of reusable survey elements according to an embodiment of the invention.

Figure 1C provides an example of a structure of a survey instance according to an embodiment of the invention.

Figure 2 illustrates elements of the survey schema of Figure 1A and attributes associated with survey elements according to one or more embodiments of the invention.

Figure 3 illustrates an example of a window in a graphical user interface used to modify instances of section that comprise a survey instance according to an embodiment of the invention.

Figures 4A-4B illustrate add section and question panels according to an embodiment of the invention.

Figure 5 provides an example of a display that is used to edit an instance of question according to an embodiment of the invention.

Figure 6 illustrates a graphical user interface used to edit an instance of choice group according to one or more embodiments of the invention.

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Figures 7, 8 and 9 provide examples of a graphical user interface for entering object information such as person, alias and location objects according to an embodiment of the invention.

Figure 10 illustrates a survey definition and generation process flow according to one or more embodiments of the invention.

Figure 11 provides an example of a graphical user interface illustrating a portion of a survey instance that may be used to capture data according to an embodiment of the invention.

Figure 12 is a block diagram of one embodiment of a computer system capable of providing a suitable execution environment for an embodiment of the invention.

Figures 13-15 provide an overview of associations between survey and multimedia data according to one or more embodiments of the invention.

Figures 16-18 illustrate process flows for identification of catalogue 15 elements, such as phrase, related to survey elements.

Figure 19A provides an example of catalogue and attribute elements and their attributes according to an embodiment of the invention.

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Figure 19B illustrates relationships formed between the elements identified in Figure 19A according to an embodiment of the invention.

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Figure 19C provides an illustration of instances of keyword 1910 and a plurality of associated label attributes according to an embodiment of the invention.

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DETAILED DESCRIPTION OF THE INVENTION

A method and apparatus for cataloguing multimedia data using surveying data is described. In the following description, numerous specific details are set forth in order to provide a more thorough description of the present invention. It will be apparent, however, to one skilled in the art, that the present invention may be practiced without these specific details. In other instances, well-known features have not been described in detail so as not to obscure the invention.

In one or more embodiments of the invention, survey data comprising a survey, survey answers or both may be queried and the results of the query used to identify multimedia data. A survey schema comprises elements that may be used to build a survey (or surveys) and store answers to survey questions. Elements of the survey may be linked to elements of a multimedia catalogue that are associated with the multimedia data. Survey data may be queried to identify a catalogue element and the multimedia data associated with the catalogue element.

In one or more embodiments of the invention, a phrase element of the catalogue is associated with a multimedia data item and with other catalogue elements such as keywords and persons. In one or more embodiments of the invention, an answer and/or question stored in a survey schema may comprise, or otherwise be associated with, catalogue elements such as a keyword(s), phrase(s), segment(s), type(s) and/or a person(s).

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By identifying a catalogue element (or catalogue elements) in a query operation on survey data (e.g., an answer or question), it is possible to identify phrase elements that are associated with the catalogue element. In one or more embodiments of the invention, the multimedia data is associated with the survey answer or question via the phrase element and its associated keywords and persons. That is, by identifying a keyword (or person) catalogue element that is associated with a phrase element and an answer (or question) survey element, it is possible to associate multimedia data to survey data and vice versa. Thus, in one or more embodiments of the invention, an association is formed between survey data and multimedia data via one or more catalogue elements.

Survey data may be linked using catalogue elements in addition to, or in replacement of, phrase, keyword or person catalogue elements. In one embodiment of the invention, a survey element may be associated with a segment element of the catalogue that is comprised of phrase elements each of which is associated with multimedia data.

For example, a testimony segment comprises multimedia data associated with a videotaped testimony, or interview, in which survey questions are presented and answered by a survey participant. Survey elements may include a testimony identifier that may be used to identify the testimony segment. The phrase elements associated with a testimony segment as well as the multimedia data associated with the phrase elements may be determined from the testimony segment.

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Figures 13-15 provide an overview of an association between survey and multimedia data according to one or more embodiments of the invention. Survey data 1302 comprises elements that are associated with a catalogue 1304. Catalogue 1304 comprises that are related to multimedia data 1306.

In one embodiment of the invention, a cataloguing graphical user interface is used to create instances of elements of catalogue 1304 wherein multimedia data is viewed and information descriptive of the multimedia data is stored in elements of the catalogue 1304. In another embodiment of the invention, a surveying system is used to enter survey data (e.g., survey responses) which may be used to populate attributes of elements of catalogue 1304.

In one embodiments of the invention, survey data 1302 comprises elements, such as question 1402 and answer 1404 of Figure 14, having some number of attributes. Catalogue 1304 comprises keyword 1406 and segment 1408 elements. As is described in more detail below, segment 1408 and keyword 1406 are related to multimedia data 1306 such that an identification of either an instance of keyword 1406, an instance of segment 1408 or both may be used to identify multimedia data 1306.

In an embodiment of the invention, instances of keyword 1406 may be related to instances of question 1402 and answer 1404. For example, it is possible to define one or more instances of keyword 1406 as selectable as an answer to a survey question. An instance of answer 1404 may comprise an attribute (or attributes) that identifies one or more instances of keyword 1406.

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Elements of survey data 1302 may comprise one or more attributes that identify instances of segment 1408. For example, in an embodiment of the invention, answer 1404 comprises a "testimonyid" attribute that may be used to identify an instance of segment 1408. That is, an attribute of answer 1404 may be used to store a value that identifies an instance of segment 1408.

Referring to Figure 15, keyword 1406 and segment 1408 are associated with phrase 1502 in one or more embodiments of the invention. Phrase 1502 is associated with multimedia data 1306, or a portion thereof. It is possible using an association between phrase 1502 and either keyword 1406 or segment 1408 (or both) to identify an associated portion of multimedia data 1306. As is discussed in more detail below, phrase 1502 contains at least one attribute that may be used to identify multimedia data 1306, or a portion thereof. Elements of survey data 1302 and catalogue 1304 that are in some manner associated with phrase 1502 may be queried to identify instances of phrase 1502 and the multimedia data 1306 related to phrase 1502.

For example, by identifying an instance of question 1402 or answer 1404 that is associated with one or more instances of keyword 1406 or segment 1408, it is possible to identify instances of phrase 1502 and the multimedia data 1306 that is associated with the instances of phrase 15002. In one or more embodiments of the invention, question 1402 and answer 1404 may be associated with a type hierarchy that may be used to classify instances of keyword 1406. It is possible to identify instances of phrase 1502 using type 1504 and the association between type 1504 and keyword 1406. Figures 16-18 illustrate process flows for

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identification of catalogue elements, such as phrase 1502, related to survey elements.

Figure 16 illustrates a process flow for identification of instances of phrase 1502 using instances of keyword 1406. Keyword 1406 may be associated with question 1402 and answer 1404 of survey data 1302, for example. At step 1602, a set of keywords 1406 is identified from elements of survey data 1302.

For example, a question 1302 may be queried to identify keywords 1406 that are associated with question 1302. The results of the query may be used in conjunction with the process of Figure 16 to identify multimedia data 1306 that may be displayed when question 1302 is presented in a survey to a survey participant, for example. To further illustrate, a query of instances of answer 1404 may yield a set of answers 1404 wherein an answer includes one or more instances of keyword 1406. The results of the query may be used in conjunction. with the process of Figure 16 to identify multimedia data that may be displayed as part of an answer to a survey question, for example.

At step 1604, a determination is made whether all of the keywords identified in step 1602 have been processed. If so, processing ends at step 1612. If not, processing continues at step 1606 to search catalogue 1304 for instances of phrase 1502 associated with the next keyword in the set created in step 1602.

At step 1608, a determination is made whether new instances of phrase 1608 where found in step 1606 (i.e., instances of phrase 1502 that were not found in a previous execution of step 1606). If not, processing continues at step 1604 to process any remaining keywords. If there are new instances of phrase 1502,

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processing continues at step 1610 to add the new instances to a result comprising instances of phrase 1502, and processing continues at step 1604 to process any remaining keywords. The result comprises instances of phrase 1502 related to the survey element (or elements) related to instances of keyword 1406 identified in step 1602. The multimedia data 1306 related to the instances of phrase 1502 in the result may be identified using the instances of phrase 1502.

Type 1504 may be associated with elements of survey data 1302 and keyword 1406 and thus may be used to identify a set of related multimedia data 1306. Figure 17 illustrates a process flow for retrieval of instances of phrase 1502 using instances of type 1504. Type 1504 may be associated with elements of survey data 1302. At step 1702, a set of types is identified that comprises instances of type 1504 that are related to one or more elements of survey data 1302 (e.g., to an instance (or instances) of question 1402 or answer 1404, or both).

At step 1704, a determination is made whether all of the types identified in step 1702 have been processed. If so, processing ends at step 1716. If not, processing continues at step 1706 to search catalogue 1304 for instances of keyword 1406 that are related to the next instance of type 1504 in the set. At step 1708, a determination is made whether all of the keywords identified in step 1706 have been processed. If so, processing continues at step 1704 to process any remaining types. If not, processing continues at step 1710 to search catalogue 1305 for instances of phrase 1502 associated with the next keyword in the set created in step 1706.

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At step 1712, a determination is made whether new instances of phrase 1502 where found in step 1710 (i.e., instances of phrase 15002 that were not found in a previous execution of step 1710). If not, processing continues at step 1708 to process any remaining keywords. If there are new instances of keyword 1406, processing continues at step 1714 to add the new instances to a result comprising instances of phrase 1502, and processing continues at step 1708 to process any remaining keywords. The result comprises instances of phrase 1502 related to the survey element (or elements) related to instances of type 1504 identified in step 1702. The multimedia data 1306 related to the instances of phrase 1502 in the result may be identified using the instances of phrase 1502.

Elements of survey data 1302 may be related to an instance (or instances) of segment 1408. Using a relationship between segment 1408 and phrase 1502, it is possible to identify the multimedia data 1306 that is associated with an element of survey data 1302 that is related to segment 1408. Figure 18 illustrates a process flow for identification of instances of phrase 1502 using instances of segment 1408.

At step 1802, a set of segments is identified that comprises instances of segment 1408 that are related to one or more elements of survey data 1302 (e.g., to an instance (or instances) of answer 1404, a data object, or both).

At step 1804, a determination is made whether all of the segments identified in step 1802 have been processed. If so, processing ends at step 1812. If not, processing continues at step 1806 to search catalogue 1304 for instances of phrase 1502 that are related to the next instance of segment 1408 in the set.

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At step 1808, a determination is made whether new instances of phrase 1608 were found in step 1806 (i.e., instances of phrase 1502 that were not found in a previous execution of step 1806). If not, processing continues at step 1804 to process any remaining segments. If there are new instances of segment 1408, processing continues at step 1810 to add the new instances to a result which comprises instances of phrase 1502, and processing continues at step 1804 to process any remaining segments. The result comprises instances of phrase 1502 related to the survey element (or elements) via instances of segment 1408 identified in step 1806. The multimedia data 1306 related to the instances of phrase 1502.

Figures 16-18 are discussed with reference to the question 1402 and answer 1404 elements of survey data 1302. It should be apparent that other elements of survey data 1302 may be used as well. For example, in one or more embodiments of the invention, survey data 1302 comprises data objects that may be used to store an answer to a survey question. Examples of data objects include person, alias, and location. It is possible to search survey data 1302. Similarly, other catalogue elements may be related to survey data or used to identify multimedia data.

20 SURVEY DATA

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In one or more embodiments of the invention, survey data comprises a survey schema that comprises survey elements that may be used to define surveys and capture survey data. In one or more embodiments of the invention, survey data comprising answers to survey questions is stored in one

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or more elements of the survey schema. Answer elements of the survey schema may be associated with one or more elements of a catalogue that may be used as indices into multimedia data. In one or more embodiments of the invention, a catalogue comprises keywords organized in a hierarchy and categorized according to a type hierarchy, phrases and segments, for example.

Survey data may be collected from different survey versions into a cohesive data, or knowledge, base or other storage mechanism. Each survey version may comprise different sets of questions and different types of answers to the questions. In an embodiment of the invention, at least one relational database may be used to store survey schema, survey instances and participant data. However, it should be apparent that other storage mechanisms (e.g., file system) may be used. Data may be collected and retained in a cohesive store for each participant regardless of the survey form or instance used.

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A survey schema comprises survey elements that may be used to build different forms or versions of a survey (a survey instance). Examples of elements of a survey schema used in embodiments of the invention include: section, question group, question, answer, data object, insert, choice group, choice item, for example. A survey instance may be defined using elements of a survey schema. For example, a survey instance may comprise some number of sections each of which may comprise some number of sections (or subsections), inserts and question groups. A question group may comprise questions. An answer is associated with each question and may also be associated with an insert. Any combination of questions may be used with any combination of

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data types for answers to the questions. An existing survey instance may be dynamically modified by adding, deleting or modifying survey elements.

In one or more embodiments of the invention, the schema includes a question element that is used to define survey questions. Questions may be grouped using a question group element. Questions and answer types may be dynamically added to the survey schema and added to a survey instance created using the survey schema. An association is created between a question and an answer via the question and answer elements.

According to one or more embodiments of the invention, a survey schema includes an answer element that identifies a data type that may be a simple or complex data type. A simple data type typically involves a single value while a complex data type may involve multiple values. In one or more embodiments of the invention, simple data is stored in an attribute of an instance of answer or another element associated with the answer instance (e.g., answertext). Complex data is stored in more than one attribute such as in attributes of a data object that is related (directly or indirectly) to an answer element. Thus, an answer value may be stored as an attribute of an answer element or as attribute (or attributes) of another element associated with an answer element (e.g., a data object or answertext element). Examples of answer and data object types include text, boolean, date, location, movement, person and keyword. New answer and data object types and data objects may be dynamically added to the survey schema.

Survey answers that are retained in the survey data base (e.g., in answer, answertext and data object elements) may comprise links to elements

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of a catalogue that is associated with multimedia data. For example, an answer to a survey question may comprise one or more keywords that are components of a catalogue into the multimedia data.

A special type of survey element referred to as an insert may be repeated none or more times in a survey. An insert may be used, for example, to accommodate repeatable survey information. For example, a survey may include questions requesting a person's educational background (e.g., undergraduate and graduate collegial background). An insert may be used to capture each collegial experience, for example.

Question group elements are reusable in a survey such that more than one instance of a question in a question group may share the same identifier. Thus, it is possible to correlate answers to question instances using the same identifier.

Survey Schema

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According to one or more embodiments of the invention, a schema is defined that identifies a generic survey structure and includes survey elements that may be used to create survey instances and capture data collected for each survey instance. Figure 1A illustrates a schema comprising survey elements according to an embodiment of the invention.

In one or more embodiments of the invention, a survey instance (or survey form) 150, created using a schema such as survey schema 160, comprises one or more instances of section 102. Section 102 may include a number of instances of section 102 (or subsections), insert 104 or question group 106.

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Insert 104 represents an element that may be repeated in survey instance 150. Insert 104 may be used to dynamically add components to a survey instance 150 to capture repeatable data which may occur when there can be multiple answers to a question or questions, for example. A section may contain questions requesting information regarding the automobiles that a participant's has purchased. An insert may be used to group answers associated with each of the automobiles.

A subsection is an instance of section 102 that is contained within another instance of section 102. In one or more embodiments of the invention, there may be a hierarchy of instances of section 102 defined in survey schema 160 and/or used in a survey instance 150.

An instance of section 102 is related to another instance of section 102 via relationship 126 such that an instance of section 102 may contain (or be contained in) multiple instances of section 102. Insert 104 is related to section 102 via relationship 130 such that multiple instances of insert 104 may be associated with section 102. Section 102 may contain none or more instances of insert 104. Section 102 may be associated with, and contain, none or more instances of question group 106 as is illustrated by relationship 132.

Question group 106 may be used to group a number of instances of question 108. Question group 106 may contain more than one question 108. Question 108 may be included in more than one question group 106.

In one or more embodiments of the invention, a set of selection items (each identifying a valid answer selection) may be associated with a question. A

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selection is identified by a choice item 114. Choice group 112 is used to group a number of instances of choice item 114 to an instance of question 108. Where a choice group 112 is associated with question 108, a value of answer 110 may be identified by selecting one of a number of choices identified by instances of choice item 114 comprising choice group 112.

In one or more embodiments of the invention, choice item 114 may be one selection item, or value. For example, an instance of choice item 114 may specify an instance of keyword 110 (i.e., an attribute value associated with keyword 110). Alternatively, choice item 114 may identify a class that comprises a plurality of selection items. For example, choice item 114 may identify an instance of type 118, where type 118 represents a class of selection items (e.g., a class of keywords). A class of selection items comprises selection items (e.g., instances of keyword 116) that are of type 118. Thus, choice group 112 may comprise instances of choice item 114 which may be a combination of none or more individual selection items and none or more classes of selection items.

An answer may be a simple or complex answer. A simple data type typically involves a single value while a complex data type may involve multiple values. In one or more embodiments of the invention, simple data is stored in an attribute of an instance of answer or another element associated with the answer instance (e.g., answertext). Complex data is stored in more than one attribute such as in attributes of a data object that is related (directly or indirectly) to an answer element.

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In one or more embodiments of the invention, an answer to an instance of question 108 may be stored in answer 110, answerText 120 and/or data object 122. A single-value answer may be stored in an attribute of answer 110 or Goves 2A-2C (e.g., a value stored in attribute 266, "answertext" of Figure 2). None or more instances of answertext 120 may be used to store additional answer text of a question 108. In an embodiment of the invention, a survey element referred to as data object 122 may be used to store a multi-value answer. In an embodiment of the invention, multiple instances of data object 122 may be used to store a multi-value answer to question 108. An attribute of one data object 122 may be stored as attributes of data object 122. Thus, an instance of data object 122 may be associated with another instance of data object 122 and answer 110, for example.

In an embodiment of the invention, data object 122 includes, but is not limited to, person, alias, date, movements and location objects each of which comprise a set of attributes that may be used to store values of a multi-value answer. A person data object may have first name, middle name, last name, date of birth, gender, type, title, etc. attributes, for example. Embodiments of the invention may include additional or different data objects 122 or have additional or different attributes.

Survey schema 160 is used to create none or more survey instances 150. Survey instance 150 may be in a print, electronic or other form, for example. In one or more embodiments of the invention, survey instance 150 may be displayed in a graphical user interface (GUI) which may be used to capture survey data. The GUI may be used by a survey participant to enter answers, or

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by another party who enters a participant's answers recorded on a hardcopy of a survey instance 150, for example.

In one or more embodiments of the invention, a survey instance 150 that is displayed in a GUI or otherwise may comprise some number (i.e., none or more) of instances of elements of survey schema 160. Figure 1C provides an example of structure of a survey instance according to an embodiment of the invention. Survey instance 150 comprises some number of section 102, question group 106, question 108, choice group 112, choice item 114, etc. Question 108 identifies an answer 110 that is to be used in capturing an answer (or answers) to the question. Answer 110 may identify a data object, or other schema element, that may be used in storing answer values. Instances of answer 110, answer text 120 and object 122 may be added to a survey instance 150 to store answers to a question 108. Insert 104 may be associated with instances of section 102 and instances of insert 104 may be dynamically added during data capture to capture repeatable data, and answer 110 may be associated with an insert 104.

Survey schema 160 may be used to create any number of survey instance 150 each of which may vary in their structure including but not limited to section 102, question group 106, question 108, answer 110 and/or the types of answers that are expected for each question. Answers associated with each of survey instance 150 may be captured into a cohesive data store (e.g., a relational database or databases).

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Survey Schema Element Attributes

In one or more embodiments of the invention, attributes of elements of survey schema 160 comprise attributes that may be used to store information concerning components of a survey instance 150 and data collected for a survey **Figures 2A to 2C** *Illustrates* instance 150 (e.g., participant data). Figure 2 illustrates elements of survey schema 160 of Figure 1A and attributes associated with survey elements according to one or more embodiments of the invention.

Section 102 includes a section identifier attribute 202 ("SectionID") that uniquely identifies each instance of section 102. A parent identifier attribute 204 ("ParentID") identifies a subsection's parent instance of section 102. Attributes 206 and 208 indicate whether an instance of section 102 may have inserts (e.g., instances of insert 104) and the type of insert(s), respectively. Section name attribute 280 ("SectionName") comprises a name or title of an instance of section 102.

In one or more embodiments of the invention, element 130 of survey schema 160 is used to relate section 102 and question group 106 in a many-to-many relationship. That is, section 102 may include none or more instances of question group 106, and none or more instances of section 102 may contain the same instance of question group 106. Instances of element 130 may be identified using attribute 210 ("SectionQ_id"). Attributes 212 and 214 relate an instance of section 102 using its identifier (section identifier 150) and an instance of question group 106 using its identifier (question group identifier 216, "QGroup_id"), respectively.

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Question 108 includes a question identifier 220 ("QuestionID") to identify each instance. Attribute 218 associates an instance of question 108 with an instance of question group 106. Answer type attribute 222 identifies an answer type for question 108. Where the type of answer is a complex data object, attribute 228 identifies the type of data object (e.g., person 128, location 124 and alias 126). Attribute 226 contains the text of the question. Attribute 230 identifies whether an answer 110 associated with an instance of question 108 is repeatable.

Choice group 112 includes a choice group identifier 240 ("ChoiceGroupID") that identifies an instance. Choice group identifier 240 is used in choice item 114 (attribute 242) to associate an instance of choice group 112 with an instance of choice item 114. Attributes 244 and 246 of choice item 114 to identify one selection item or a class of selection items, respectively.

Insert 104 includes an identifier attribute 248 ("Insert_id") that identifies an instance. Insert 104 is used to identify a repeatable data in a survey instance 150. Attribute 250 ("SectionID") associates an instance of insert 104 to an instance of section 102. Attribute 278 ("InsertType") identifies a type of insert.

An instance of answer 110 may be identified using attribute 252 ("AnswerID"). Attribute 254 ("QuestionID") associates an instance of answer 110 and an instance of question 108. An instance of answer 110 may be associated with an instance of insert 104 via attribute 256 ("InsertID"). A value that is an ' answer to a question may be stored in attribute 266 ("answertext"). Additional answer values may be stored in attribute 292 ("answertext") of element 120 which may be associated with answer 110 using attribute 290. Alternatively, a

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data object may be used to store a multi-value answer. Attributes 262 and 264 may be used to associate an answer 110 with a data object 122. Attribute 260 ("AnswerType") specifies the type of answer. Examples of answer types include boolean, plain text, object (e.g., data object) and single select. Person 128, alias 126 and location 124 are examples of data object 122. Person 128 includes attributes associated with a person (e.g., name, gender, date of birth, etc.) Attribute 268 ("PersonID") is used to identify an instance of person 128. A new answer type may be added by specifying a new value for attribute 260 associated with the new answer, or data, type.

Another example of data object 122, alias 126 may be used to store another identity associated with, for example, a person. Attribute 272 ("AliasID") is used to identify an instance of alias 126. Attribute 274 relates an instance of person 128 and alias 126. Location 124 includes attributes for storing location information (e.g., city, state, country, street address, etc.). Attribute 276 is used to identify an instance of location 124.

In one embodiment of the invention, for example, multiple instances of question 108 may be created with the same identifier. None or more instances of answer 110 relate to one instance of question 108. Alternatively, more than one instance of question 108 having the same identifier may be associated with none or more instances of answer 110. That is, a survey element such as question 108 may be reused such that multiple instances of question 108 are given the same identifier. Thus, the same identifier may be used to identify one or more instances of the element thus facilitating a query for information associated with the reusable element.

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For example, all instances of answer 110 related to an instance (or instances) of question 108 may be retrieved by querying for one value of attribute 220 (i.e., "QuestionID"). Question group 106 further includes attribute 286 which indicates whether question group 106 is reusable. In a reusable question group 106, instances of the same question 108 are given the same identifier across instances of question group 106.

Figure 1B provides an example of a question 108 in a reusable question group 106 according to an embodiment of the invention. Section instances 180A-180D are generated using section 102 of survey schema 160. In each of section instances 180A-180D, Attribute 202 is populated with a value that may be used to identify the instance. For example, section instances 180A-180D have identifiers of "S1," "S2," "S3," and "S4," respectively. Section instances 180A-180D may be included in the same or a different survey instance 150.

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In this example, each of section instances 180A-180D is associated with an instance of question group (i.e., question groups 182A-182D, respectively). Attribute 216 of question group 106 is assigned an identifier value in each of question groups 182A-182D. In the example of Figure 1B, identifier values for question groups 182A-182D are "QC1," "QC2," "QC3" and "QC4," respectively. A different value is used to uniquely identify each instance.

Question groups 182A-182D are reusable such that questions 184A-184D within each have the same identifier. As a member of a reusable component of a survey, questions 184A-184D have the same identifier (i.e., "Q1").

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Answers 186A-186D are instances of answer 110 that represent answers to questions 184A-184D, respectively. An identifier is assigned to each of answers 186A-186D (i.e., " A_1 ," " A_2 ," " A_3 " and " A_4 ").

It is possible to retrieve answers associated with questions 184A-184D using the same identifier. That is, it is possible to find all answers to a question whose identifier is equal to " Q_1 ." If each of questions 184A-184D had different identifiers, it would be necessary to identify the value of each identifier prior to retrieving the answers associated with each question .

In one or more embodiments, answer 110 may be be repeatable.Attribute 230 of question 108 identifies an answer as being repeatable.

Process Overview

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In one or more embodiments of the invention, schema 160 is used to create multiple survey instances 150. Figure 10 illustrates a survey definition and generation process flow according to one or more embodiments of the invention.

At block 1002, survey schema 160 is defined. For example, elements of survey schema 160 may be added, deleted or modified. Instances of section 102, question group 106, question 108, answer 110, data object 122, and choice group 112 may be added, deleted or modified, for example. Relationships between elements of survey schema 160 may be added, deleted or modified. For example, an instance of question 108 may be added to or removed from a question group 106. Similarly, a question group 106 may be added to or removed from a section 102. An insert 104 may be added to or removed from

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a section 102. A choice item 114 may be added to or removed from a choice group 112, and a choice group 112 may be added to or removed from a question 108.

In one or more embodiments of the invention, a new answer type may be added to schema 160. Each answer type has an associated value (e.g., a numeric value). Question 108 and answer 110 include an attribute (e.g., "Answertype," attributes 222 and 260, respectively) that identify the answer type associated with each. In an embodiment of the invention, an answer type associated with question 108 or answer 110 may be changed by modifying an attribute of question 108 or answer 110. Similarly, a data object 122 (e.g., person 128, alias 126 and location 124) that is associated with question 108 or answer 110 may be changed by modifying attribute values (e.g., attributes 228 and 262, respectively).

At block 1004, a survey instance 150 may be defined using a survey 15 : schema 160 defined in block 1004. A survey instance 150 may comprise none or more instances of section 102, question group 106, question 108, choice group 112, insert 104, answer 110, choice item 114, etc. It is possible, in one or more embodiments of the invention, to define survey schema 160 and survey instance 150 simultaneously. For example, it is possible to define an element of schema 160 (e.g., using step 1102) for use in a survey instance 150 at step 1004. A survey designer may make use of the elements of survey schema 160 to define a survey instance 150 as well as define additional elements of survey schema 160.

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In one or more embódiments of the invention, a change to an element of survey schema 160 is reflected in a survey instance 150 that includes the element. For example, if an instance of question 108 is modified in survey schema 160 (e.g., the text of an instance of question 108 or the answer is changed), the modification is reflected in a survey instance 150 that includes that instance of question 108. The propagation of a modification in survey schema 160 to a survey instance 150 may be avoided, for example, making modifications to an element (new or existing) that is not included in the survey instance 150. A new element may be created with or without the use of an existing element (or elements) as a template.

At block 1006, data may be captured in elements of survey schema 160 for a survey instance 150. For example, data is captured using instances of answer 110, answertext 120, insert 104 and data object 122. In one or more embodiments of the invention, answer text may be stored in attribute 266 of answer 110 and/or attribute 292 of answertext 120. An association between answer 110 and answertext 120 may be formed by storing an identifier of answer 110 in attribute 290 of answer 120.

In one or more embodiments of the invention, a data object 122 may be used to store all or a portion of an answer. If, for example, the answer is of type person, a person 128 instance may be created and the attributes are populated with the person's information. In one or more embodiments of the invention, a relationship is created between an answer 110 and the person 128 instance by storing the identifier of the person 128 instance in attribute 264 of answer 110.

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In one or more embodiments of the invention, one data object 122 may be related to another data object 122 as part of an answer. For example, alias 126 may be related to person 128 and store alias information (e.g., a nickname or other name) associated with a person.

Insert 104 may be used to group answers to questions. For example, a participant may provide more than one set of answers to questions in an instance of section 102. Each set of answers may be associated with an instance of insert 104.

Survey Example

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In one or more embodiments of the invention, a graphical user interface is used to define schema 160, define survey instance 150 and capture data from a survey instance 150 (e.g., to perform steps 1002, 1004 and 1006 of Figure 10).

Survey Data Capture GUI

Figure 11 provides an example of a GUI illustrating a portion of a survey instance 150 that may be used to capture data according to an embodiment of the invention. It should be apparent that embodiments of the invention are not limited to the survey example of Figure 11.

In the example of Figure 11, window 1102 depicts a portion of a survey instance 150 used to capture holocaust survivor information. Each survivor (i.e., survey participant) is asked for biographical information including general information in addition to prewar, wartime and post-wartime experiences. Data may be entered using window 1102 from a printed version of a survey

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instance 150, or directly by a participant, for example. Area 1104 provides a list of sections 102 of the survey instance 150. According to one or more embodiments of the invention, a user enters survey data by selecting, or opening, sections (e.g., sections 1106 and 1108) in area 1104.

Section 1108 is opened which indicates that it has been selected while sections 1106 are closed or collapsed in this example. In one or more embodiments of the invention, display 1110 identifies instances of question group 106 of an open instance of section 102 (e.g., section 1108) is displayed. An instance of question group 106 in display 1110 may be selected such as question group selection 1112 which is shaded to indicate that it has been selected. Instances of question 108 that are associated with question group selection 1112 are displayed in area 1114 of window 1102.

Area 1114 comprises columns 1116, 1118 and 1120. In this embodiment of the invention, answer type may also be displayed as a further prompt to the user. For example, entry 1130A indicates that the answer that is expected is a boolean answer (e.g., "yes" or "no"). Entry 1130B indicates that a plain text answer is expected for the question. Entries 1130C and 1130D indicate that instances of data object 122 (i.e., location 124 and person 128) are the expected type for these questions.

Answer text is displayed in columns 1118 and 1120. Instances of choice item 114 may be displayed in area 1122. Thus, for example, when an instance of question 108 displayed in column 1116 is selected, instances of choice item 114 that are associated with the selected instance of question 108 are displayed in area 1122.

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Area 1124 may be used to display possible answer selections associated with a question that is displayed in area 1114. For example, entry 1130D expects an instance of person 128 as an answer. Column 1126 may be used to display existing instances of person 128 that may be selected as an answer. Column 1128 of area 1124 may also be used to enter a proposed answer to a question. The proposed answer is retained, subsequently reviewed, and either accepted or rejected. If accepted, the proposed answer becomes an answer to the question and may become a selectable answer to another question. If rejected, a proposed answer is removed, and another answer may be provided.

10 Survey Definition GUI

Figure 3 illustrates an example of a window in a GUI used to modify instances of section 102 that comprise a survey instance 150 according to an embodiment of the invention. In display 302, a window is shown which is comprised of instances of section 102, question group 106 and question 108.

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Panel 304 displays instances of section 102 (sections 306 and 308) within an instance of form 150. Sections 306 are collapsed such that instances of question group 106 are not displayed. Section 308 is expanded to display instances of question group 106 within section 308 (e.g., question groups 310 and 312). Question group 312 is selected in panel 304 such that instances of question 108 are displayed in panel 316 and the name (i.e., section name attribute 280) is displayed in panel 314.

Panel 316 displays attribute values associated with instances of question 108. Column 320 of panel 316 identifies the question text (i.e., attribute 226) of

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five instances associated with question 108. Column 318 of panel 316 identifies answer types (e.g., retained in attribute 222) associated with each question. Columns 322, 326 and 328 display values for attributes 284, 228 and 230 of question 108, respectively. Column 324 displays the name of an instance of choice group 112 that groups choices, or answer selections, for a question.

Using buttons 330, 332, 334 and 336, a survey developer may add a section, delete a section, add a question, delete a question respectively. Figures 4A-4B illustrate add section and question panels according to an embodiment of the invention.

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Referring to Figure 4A, panel 402 may be used, in one or more embodiments of the invention, to add a section (i.e., to survey schema 160 and/or survey instance 150). Pull down menu area 404 is used to display instances of section 102 to select a parent section where the new instance of section 102 is a subsection of another instance of section 102. Text field 406 may be used to enter a name (e.g., attribute 280) of the new instance of section 102. Check box 412 may be selected to specify whether an instance of insert 104 is associated with an instance of section 102. Pull down menus 408 may be used to display instances of insert 104 to identify types of inserts that are allowed. The save button 410 is used to save the new instance of section 102 in survey schema 160.

A new instance of question group 106 may be added, in one or more embodiments of the invention, using panel 422 of Figure 4B. Pull down menu 424 displays instances of section 102 to select a section 102 that includes an instance of question group 106 as a member. Text field 426 may be used to

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enter a title for an instance of question group 106. Check box 430 identifies the instance of question group 422 as a reusable question group (i.e., set attribute 286 of question group 106). Save button 428 commits the new instance to survey schema 160 as an instance of question group 106.

Instances of question 108 may be added, modified or deleted from survey schema 160 or a survey instance 150. Figure 5 provides an example of a display (i.e., panel 502) that is used to edit an instance of question 108 according to an embodiment of the invention. Fields 516 and 504 identify the name associated with an instance of question group 106 and the text of the question associated with an instance of question 108, respectively. An answer type may be selected from answer type selections 510. Where the answer type is an object, pull down menu 512 may be used to display instances of object 122 for selection. Pull down menu 514 may be used to display instances of choice group 112 to associate answer choices to an instance of question 108.

Figure 6 illustrates a user interface used to edit an instance of choice group 112 according to one or more embodiments of the invention. Display 602 includes a listing, in panel 604, of instances of choice group 112. Selecting one of the entries in panel 604 causes information associated with the selected instance of choice group 112 to be displayed in panels 610 and 614. Panel 616 displays instances of type 118 and keyword 116 for selection.

Panel 610 identifies instances of choice item 114. A choice or class of choices may be dragged from panel 616 to panel 614. A choice (e.g., an instance of keyword 116) that is dragged from panel 616 to panel 614 is displayed in panels 614 and 610. A class of choices (e.g., type 118) is displayed in panel 614

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and the choices within the class are displayed in panel 610. None or more of the choices within a class of choices may be excluded from the choices by dragging the choice from panel 610 to trash 618.

Entry 608 in panel 610 indicates that the instance of choice item 114 derives from a class of choices. Entry 612 of panel 614 identifies a class of choices (i.e., "concentration camps").

In one or more embodiments of the invention, an answer to a question may comprise a single answer or multiple answers. Answer 110 includes an attribute (e.g., attribute 266, "answertext") that may store a single answer such as a date, a boolean (e.g., "yes" or "no"), currency and text. Alternatively, answer 110 may contain a pointer to an instance of object 122 that comprises one or more attributes that contain the answer. Examples of object 122 include a person object, alias object and location object. Figures 7, 8 and 9 provide examples of a GUI for entering object information such as person, alias and location objects according to an embodiment of the invention.

Referring to Figure 7, panel 702 may be used, in one or more embodiments of the invention, to enter information about a person. Pull down menu 704 is used to display and identify a relationship between the person surveyed and the person that is a part of the answer. Fields 706 are used to enter information related to the person answer. Text field 708 may be used to enter a note about the person. Pull down menus 710 may be used to identify an alias associated with the person answer (e.g., a name to which the person is also known).

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Figure 8 provides an example of a panel 802 that may be used to enter alias object information. Pull down menu 804 may be used to display and identify another survey element (e.g., person object) for which the alias object is an alias. Fields 806 identify the alias name, title, etc. Pull down menu 808 is used to display and select an alias type. Text field 810 may be used to input additional notes.

In an embodiment of the invention, if an answer to a question is a location, a location object is used. Figure 9 provides a display of a panel 902 that may be used to specify a location answer according to one or more embodiments of the invention.

Pull down menu 906 is used to display and select a location type. Fields 908 are used to enter information associated with the attributes of a location object. Column 910 is used to receive a text entry. Column 912 may be used to display a selection made from class items associated with a given attribute. Panel 904 may be used to display choices for one of the fields in column 912 that has been selected. A choice is selected, in one or more embodiments of the invention, by dragging it from panel 904 to the selected field (e.g., field 914).

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In one or more embodiments of the invention, catalogue 1304 used in one or more embodiments of the invention comprises catalogue elements. As discussed above, one catalogue element, a phrase (e.g., phrase 1502 or phrase 1906 of Figures 19A-19C), may be associated with a portion of multimedia data 1306. A phrase has a plurality of attributes some of which are attribute

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elements. The attribute elements that are attributes of a phrase include keyword, person, image, video (e.g., documentary footage), proposed person, and proposed keyword. The keyword, person, image, proposed person and proposed keyword attribute elements can have attributes that are also attribute elements. For example, attribute elements that are attributes of the keyword attribute element include thesaural keyword, thesaural person, keyword, and type. An index is built on the attributes and attribute elements. The index can be used to navigate through the catalogue (e.g., search for phrases).

Figure 19A provides an example of catalogue and attribute elements and their attributes according to an embodiment of the invention. Segment 1904 (also referred to herein as segment 1408) is a container element. It can contain other elements. For example, segment 1904 can contain one or more instances of phrase 1906. In the invention, input data is decomposed into one or more pieces, or fragments. An instance of phrase 1906 is associated with each input data fragment. Phrase 1906 is a catalogue element. Phrase 1906 has one or more attributes and/or attribute elements on which an index is built. The index can be used to navigate through the catalogue.

An attribute of phrase 1906 is keyword 1910 (also referred to herein as keyword 1406). An instance of phrase 1906 can be associated with one or more instances of keyword 1910. Keyword 1910 further defines aspects of an input data fragment. Preferably, an attribute of keyword 1910 identifies content, or substance, for an input data fragment. The content or substance identified by keyword 1910 is preferably expressed as a single word. However, content or substance can be expressed using multiple words.

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To illustrate, the input data can be a videotape. The videotape is, for example, that of an interview, or survey, conducted with a survivor of the Holocaust. The interview is broken down into the interviewee's pre-war, war-time, and post-war experiences. The interviewee's pre-war experience can be broken down into topics (e.g., each of which may be instantiated as a section 126). A pre-war topic might be the interviewee's personal life, for example. Each topic can be broken down into sub-topics (each of which may be instantiated as subsections, or instances of section 126). In the example of the interviewee's personal life, a sub-topic might be the interviewee's relationship with family members, experiences at school, etc. Each sub-topic contains an information item. To further illustrate using the current example, an information item might be *home*, *brother*, *sister*, *teacher*, etc. In this example, the topic of the interviewee's personal life becomes an instance of segment 1904. The interviewee's relationship with family members and experiences at school become instances of phrase 1906. The words home, brother, sister, and teacher become instances of keyword 1910. The words home, brother, sister and teacher provide information regarding the content or substance of an input data fragment.

An instance of keyword 1910 can be associated with one or more instances of thesaural keyword 1912. An instance of thesaural keyword 1912 is an instantiation of an instance of keyword 1910. Thesaural keyword 1912 specifies a value or label for its associated instance of keyword 1910. Thesaural keyword 1912 can be one or more words. Thesaural keyword 1912 can be used, for example, to specify a value for an instance of keyword 1910 in a particular language. Multiple instances of thesaural keyword 1912 can be used

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to express the value of an instance of keyword 1910 in multiple languages. Alternative expressions for the value of an instance of keyword 1910 can be retained by instances of thesaural keyword 1912 as well. Thus, the content or substance of an input data fragment can be expressed in multiple languages with a plurality of alternative expressions in each language. A preference can be associated with an instance of thesaural keyword 1912 to identify it as a preferred alternative in a given language.

Figure 19C provides an illustration of instances of keyword 1910 and a plurality of associated label attributes according to an embodiment of the invention. A grid is displayed with axes 1986 and 1988. Instances of keyword 1910 are displayed along a vertical axis, axis 1986. A horizontal axis, axis 1986 contains examples of languages in which a label associated to an instance of keyword 1910 can be represented. Instances of thesaural keyword 1912 are depicted at the intersections of these two axes.

Each instance of thesaural keyword 1912 is an instantiation for an associated instance of keyword 1910. Each instance of thesaural keyword 1912 contains a label that can be used as the label for an instance of keyword 1910. For example, thesaural keywords 1990A-1990D, 1991A-1991E, 1992A-1992B, and 1993A-1993B are instantiations of Keyword Instance One. Similarly, thesaural keywords 1994A-1994B, 1995A-1995B, 1996A-1996C, 1997A-1997B are instantiations of Keyword Instance Two.

An instance of thesaural keyword 1912 can be an instantiation of an instance of keyword 1910 in a particular language. For example, thesaural keywords 1991A-1991E are English instantiations of Keyword Instance One.

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Thesaural keywords 1991A-1991E provide alternate instantiations for Keyword Instance One. That is, each contains a English-language label for Keyword Instance One. Thus, Keyword Instance One can be associated with a different English-language label based on which instance of thesaural keywords 1991A-1991E is used to supply the label for Keyword Instance One. Similarly, Keyword Instance is associated with English-language alternatives contained in thesaural keywords 1995A-1995B.

Thus, within a language, an instance of keyword 1910 can have alternate instantiations of thesaural keyword 1912. An instance of keyword 1910 can also have alternate instantiations of thesaural keyword 1912 across multiple languages as exemplified in Figure 19C. Alternate instantiations for Keyword Instance One exist in French (e.g., thesaural keywords 1990A-1990D), German (e.g., thesaural keywords 1992A-1992B), and Russian (e.g., thesaural keywords 1993A-1993B), for example. Similarly, Keyword Instance Two has alternative instantiations in French (e.g., thesaural keywords 1994A-1994B), German (e.g., thesaural keywords 1994A-1994C), Russian (e.g., thesaural keywords 1997A-1997B).

A preferred alternate instantiation of an instance of keyword 1910 can be identified in each of the languages in which the keyword instance is represented. Thus, for example, thesaural keyword instance 1990C can be identified as the preferred instantiation of Keyword Instance One for the French language. Similarly, thesaural keyword instances 1991B, 1992A, and 1993B can be the preferred English, German, and Russian (respectively) instantiations for Keyword Instance One. Thesaural keyword instances 1994A, 1995B, 1996C, and

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1997A can be the preferred French, English, German, and Russian instances (respectively) for Keyword Instance Two.

Referring to Figure 19A, type 1916 (also referred to herein as type 1504) is associated with keyword 1910. Type 1916 provides attribute information for keyword 1910. Type 1916 can be used to include instances of keyword 1910 in a classification or category. In other words, an instance of keyword 1910 is an instantiation of an instance of type 1916. For example, an instance of keyword 1910 having an attribute of "Ford Bronco" could be associated with a type instance having an attribute of "car". Another instance of keyword 1910 having an attribute of "car". Another instance of keyword 1910 having an attribute of seasociated with the same instance of type 1916. Both instances of keyword 1910 are instances of a car. One or more instances of type 1916 can be associated with an instance of keyword 1910. In the preferred embodiment, a hierarchy is established for instances of type 1916. An instance of keyword 1919 that is associated with an instance of type 1916 is also associated with the hierarchy of the instance of type 1916.

Other attribute elements that can be associated with an input data fragment via phrase 1906 include person 1918, and image 1920. Person 1918 identifies an individual associated with an input data fragment. In the previous example, a personal life experience may contain a reference to a person. An instance of person 1918 can be used to identify the reference. Person information 1926 provides attribute information for an instance of person 1918. An instance of image 1920 is used for data such as a still photograph that is referenced in the input data.

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In the preferred embodiment of the invention, some elements, such as keyword 1910 and person 1918, must be approved before becoming actual instances. Prior to approval, the instances are considered to be proposed instances. For example, proposed keyword 1914 and proposed person 1924 are attribute elements used to identify instances of keyword 1910 and person 1918 that have not yet been approved as actual instances. Proposed instances are reviewed and a determination is made whether to transform the proposed attribute element into an actual attribute element or to otherwise dispose of the proposed attribute element.

Person Information 1926 is an attribute element associated with person 1918. A "one-to-one" relationship (relationship 1936) exists between person information 1926 and person 1918. Person information 1926 contains attributes for person 1918. The attributes of person information 1926 contain information for a person having an instance of person 1918.

Events can also be associated with input data. Each event becomes an instance of event 1908. As previously described, input data can be decomposed into input data fragments each of which is associated with an instance of phrase 1906. Input data can also be decomposed into input data fragments that are associated with instances of event 1908. A type attribute is associated with event 1908. Examples of an event type in the preferred embodiment include a segment, phrase, break between tapes, quality assurance details, facts, and miscellaneous (or other). An event can be used to access the associated input data fragment. An instance of event 1908 can be used to access an input data

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fragment. For example, an instance of event 1908 of type phrase can be used to locate the input data fragment associated with an instance of phrase 1906.

Another example of an event type is a quality assurance event. In the preferred embodiment of the invention, a quality assurance mechanism can be used to monitor the quality of the input data and provide feedback. Quality assurance events are used to mark the input data. An event can mark a positive, negative, or neutral quality assurance event. For example, video input data is being collected in multiple interviews. Each interview can be reviewed to identify parts of the interview process that are noteworthy. Where, for example, an interviewer does not follow-up with an interviewee to obtain additional details, a negative quality assurance event can be created. A positive event can be similarly created. An event that is neither positive nor negative (i.e., informational or neutral) can also be created. A report of quality assurance events can be generated and used to provide feedback to the persons involved in collecting the input data.

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Relationships of Elements

In the preferred embodiment, catalogue and attribute elements are interrelated. Relationships are formed between two or more elements using the invention. Figure 19B illustrates relationships formed between the elements identified in Figure 19A according to an embodiment of the invention. A "many" relationship is signified using a double arrow. A "one" relationship is identified using a single arrow. Relationship 1928, for example, is a "many-to-many" relationship. That is, one or more instances of segment 1904 can be related to many instances of phrase 1906. Alternatively stated, segment

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1904 contains one or more instances of phrase 1906. One instance of phrase 1906 can be related to multiple instances of segment 1904. That is, an instance of phrase 1906 is contained within one or more instances of segment 1904. As illustrated by relationship 1946, one or more instances of type 1916 can be related to other instances of type 1916.

A "many-to-many" relationship (relationship 1930) exists between phrase 1906 and proposed keyword 1914, keyword 1910, image/video 1920, proposed person 1924 and person 1918. An instance of phrase 1906 can be related to a set of proposed keywords, a set of keywords, a set of images and/or video, a set of proposed persons, and a set of persons, each set having zero or more members. Further, an instance of proposed keyword 1914, keyword 1910, image 1920, proposed person 1924 or person 1918 can be related to more than one instance of phrase 1906.

Relationship 1938 illustrates a "many-to-many" relationship between keyword 1910 and thesaural keyword 1912. An instance of keyword 1910 can be associated with one or more instances of thesaural keyword 1912. The same instance of thesaural keyword 1912 can be associated with one or more instances of keyword 1910.

As previously stated, instances of type 1916 can be interrelated with other instances of type 1916 via a type hierarchy. Relationship 1944 identifies an instance of type 1916 as a parent or child of another instance of type 1916. Similarly, the instances of keyword 1910 are interrelated via a keyword hierarchy. Keyword 1910 can be related to other instances of keyword 1910 via relationship 1942. Relationship 1942 identifies an instance of keyword 1910 as a

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parent or child of another instance of keyword 1910. Relationship 1944 relates keyword 1910 and type 1916. That is, one instance of keyword 1910 is related to an instance of type 1916. Conversely, an instance of type 1916 can be associated with multiple instances of keyword 1910.

Further, an instance of keyword 1910 can be related to many instances of type 1916 via relationships 1942 and 1946. That is, an instance of keyword 1910 has a type that is associated with an instance of type 1916. In addition, the instance of keyword 1910 inherits the types associated with the children of its associated instance of type 1916.

Person 1918 and person information 1926 have a "one-to-one" relationship via relationship 1928. Person 1918 and thesaural person 1922 are related via relationship 1934. Person 1918 can be associated with multiple instances of thesaural person 1922. An instance of thesaural person 1922 can be related to multiple instances of person 1918 via relationship 1934.

Segment 1904 is a container element. That is, as illustrated by relationship 1928, segment 1904 can contain multiple instances of phrase 1906. Segment 1904 is defined by the set of elements that it contains. For example, segment 1904 is, for example, a chapter segment, a testimony segment, or a general segment. Instances of phrase 1906 can be grouped in the order in which they occur in the input data in a chapter segment. As a testimony segment, segment 1904 contains a grouping of instances of 1904 associated with the input data. For example, a testimony segment can contain all instances of segment 1904 that are associated with a videotaped interview. Person 1918 can be related to segment 1904 via relationship 1932. At least one instance of

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person 1918 is related to an instance of segment 1904 that is a testimony segment via relationship 1932.

Relationship 1950 illustrates the relationship between instances of segment 1904 (i.e., a testimony segment) that act as a container for other instances of segment 1904. A general segment contains a set of instances of phrase 1906 that are not necessarily related to particular input data. A general segment can be a collection of phrases that meet a certain criteria. For example, a general segment can contain instances of phrase 1906 that are related to an instance of keyword 1910 having a value of "teacher".

Segment 1904 therefore identifies a group of catalogue elements (e.g., phrase 1906. An instance of segment 1904 can identify all catalogue element instances. Other instances of segment 1904 can identify a subset of catalogue elements. Thus, for example, an instance of segment 1904 can identify all instances of phrase 1906 or a subset of all of the instances of phrase 1906. The set including all instances of phrase 1906 is a catalogue. A smaller catalogues that contain a subset of all instances of phrase 1906 is also a catalogue. Within a catalogue, a smaller catalogue can be created by, for example, a query operation or user designation.

A set of catalogue elements can be identified by querying the attribute elements, for example. A query operation can be performed on the attribute elements to examine other attribute elements associated with a catalogue element. A query operation identifies a set of cataloguing elements (e.g., instances of phrase 1906) that satisfy the criteria specified in the query. A set of cataloguing elements identified in a query are grouped in an instance of

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segment 1904. A user can also specify a collection of phrases 1906 that can be grouped in an instance of segment 1904.

Attributes

Figure 19A provides examples of attributes for catalogue and attribute elements according to an embodiment of the invention. Segment 1904 contains an identifier (ID), a descriptive phrase, and a set of phrases, for example. The phrases related to an instance of segment 1904 are included in the segment instance's set of phrases. A set is formed by creating relationships between the elements. Figure 19B illustrates examples of the relationships that exist between elements in an embodiment of the invention. The relationships that form a set can be implemented using any of the known techniques known in the art. For example, the relationships can be implemented in a programming language using pointers. In a relational database management system, for example, the relationships can be formed using relations and primary and foreign keys.

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Referring to Figure 19A, phrase 1906 includes an input data ID (e.g., identifies the input data from which the phrase was generated), an ID, a descriptive phrase, In/Out timecodes (i.e., a corresponding location within the input data), a set of keywords, images, persons, proposed keywords, and proposed persons. Keyword 1910 includes an ID, and sets of types, thesaural. keywords, child keywords and parent keywords. The child and parent keyword set form relationships for the keyword hierarchy. The set of thesaural keywords related to keyword 1910 contain keyword values or labels for keyword instance.

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Person 1918 includes an ID, a primary name, an occupation, date of birth, and a set of proposed persons. Person information 1926 contains a person ID for the associated instance of person 1918. Person information 1926 contains one or more attributes for the associated instance of person 1918. The attribute information can vary depending on the multimedia information being catalogued. For example, the catalogued multimedia data may consist of interviews with individuals. An instance of person 1918 can be instantiated and associated with an interviewee. Person information 1926 associated with the instance of person 1918 can then include biographical information of the interviewee. The multimedia data videotaped sporting events. In this case, an instance of person 1918 can be created for a person associated with the sporting event (e.g., player, referee, and broadcasting personnel). An instance of person information 1926 associated with the instance of person 1918 can include statistical information associated with the participant.

An event 1908 includes an ID, type (e.g., segment, phrase, interviewer, videographer, fact, or other), sub-type (e.g., a positive, negative, or informational event), timecodes, and a comment (or descriptive note).

Thesaural keyword 1912 includes an ID, a keyword ID (i.e., the ID for an instance of keyword 1910 for which the thesaural keyword instance is an alternative), a label (i.e., the value of the keyword instance to which the thesaural instance is related), a language of choice identifier (or language ID), a preferred flag, and a characteristic (or class). If set, the preferred flag specifies that the thesaural keyword instance is the preferred alternative for the related keyword instance in the language specified by the language ID. The

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characteristic attribute further defines the thesaural keyword instance. It can be used to identify that thesaural keyword instance is a slang word, for example.

An ID, timecode and locator are included as attributes for image 1920. The locator attribute is used to locate the digitized image, for example. Proposed keyword 1914 includes an ID and a label. It is also possible to include the attributes contained in keyword 1910 in proposed keyword 1914. Thus, the user that is proposing a new keyword can enter as much information regarding. the proposed keyword. Proposed person 1924 includes an ID and name attribute. Like proposed keyword 1914, the attributes associated with person 1918 can be included in proposed person 1924. Type 1916 includes an ID and a label.

Elements and their relationships can be managed using a cataloguing mechanism and a relationship management mechanism. The cataloguing mechanism includes a user interface that includes a series of screens. During cataloguing, a user (e.g., a cataloguer) reviews the input data and causes elements to be instantiated and associated with the input data and other elements. Elements that already exist can be associated with the input data during cataloguing. In addition, a cataloguer can propose new elements and relationships. The relationship management facility is used to review the 20 elements and relationships proposed by a cataloguer. The relationship management facility can also be used to create new elements and relationships.

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EMBODIMENT OF COMPUTER EXECUTION ENVIRONMENT (HARDWARE)

An embodiment of the invention can be implemented as computer software in the form of computer readable code executed on a general purpose computer such as computer 1200 illustrated in Figure 12, or in the form of bytecode class files executable within a Java runtime environment running on such a computer. A keyboard 1210 and mouse 1211 are coupled to a bi-directional system bus 1218. The keyboard and mouse are for introducing user input to the computer system and communicating that user input to processor 1213. Other suitable input devices may be used in addition to, or in place of, the mouse 1211 and keyboard 1210. I/O (input/output) unit 1219 coupled to bi-directional system bus 1218 represents such I/O elements as a printer, A/V (audio/video) I/O, etc.

Computer 1200 includes a video memory 1214, main memory 1215 and mass storage 1212, all coupled to bi-directional system bus 1218 along with keyboard 1210, mouse 1211 and processor 1213. The mass storage 1212 may include both fixed and removable media, such as magnetic, optical or magnetic optical storage systems or any other available mass storage technology. Bus 1218 may contain, for example, thirty-two address lines for addressing video memory 1214 or main memory 1215. The system bus 1218 also includes, for example, a 32-bit data bus for transferring data between and among the components, such as processor 1213, main memory 1215, video memory 1214 and mass storage 1212. Alternatively, multiplex data/address lines may be used instead of separate data and address lines.

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In one embodiment of the invention, the processor 1213 is a microprocessor manufactured by Motorola, such as the 680X0 processor or a microprocessor manufactured by Intel, such as the 80X86, or Pentium processor, or a SPARC microprocessor from Sun Microsystems, Inc. However, any other suitable microprocessor or microcomputer may be utilized. Main memory 1215 is comprised of dynamic random access memory (DRAM). Video memory 1214 is a dual-ported video random access memory. One port of the video memory 1214 is coupled to video amplifier 1216. The video amplifier 1216 is used to drive the cathode ray tube (CRT) raster monitor 1217. Video amplifier 1216 is well known in the art and may be implemented by any suitable apparatus. This circuitry converts pixel data stored in video memory 1214 to a raster signal suitable for use by monitor 1217. Monitor 1217 is a type of monitor suitable for displaying graphic images. Alternatively, the video memory could be used to drive a flat panel or liquid crystal display (LCD), or any other suitable data presentation device.

Computer 1200 may also include a communication interface 1220 coupled to bus 1218. Communication interface 1220 provides a two-way data communication coupling via a network link 1221 to a local network 1222. For example, if communication interface 1220 is an integrated services digital network (ISDN) card or a modem, communication interface 1220 provides a data communication connection to the corresponding type of telephone line, which comprises part of network link 1221. If communication interface 1220 is a local area network (LAN) card, communication interface 1220 provides a data communication connection via network link 1221 to a compatible LAN. Communication interface 1220 could also be a cable modem or wireless

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interface. In any such implementation, communication interface 1220 sends and receives electrical, electromagnetic or optical signals which carry digital data streams representing various types of information.

Network link 1221 typically provides data communication through one or more networks to other data devices. For example, network link 1221 may provide a connection through local network 1222 to local server computer 1223 or to data equipment operated by an Internet Service Provider (ISP) 1224. ISP 1224 in turn provides data communication services through the world wide packet data communication network now commonly referred to as the "Internet" 1225. Local network 1222 and Internet 1225 both use electrical, electromagnetic or optical signals which carry digital data streams. The signals through the various networks and the signals on network link 1221 and through communication interface 1220, which carry the digital data to and from computer 1200, are exemplary forms of carrier waves transporting the information.

Computer 1200 can send messages and receive data, including program code, through the network(s), network link 1221, and communication interface 1220. In the Internet example, remote server computer 1226 might transmit a requested code for an application program through Internet 1225, ISP 1224, local network 1222 and communication interface 1220.

The received code may be executed by processor 1213 as it is received, and/or stored in mass storage 1212, or other non-volatile storage for later execution. In this manner, computer 1200 may obtain application code in the form of a carrier wave.

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Application code may be embodied in any form of computer program product. A computer program product comprises a medium configured to store or transport computer readable code or data, or in which computer readable code or data may be embedded. Some examples of computer program products are CD-ROM disks, ROM cards, floppy disks, magnetic tapes, computer hard drives, servers on a network, and carrier waves.

The computer systems described above are for purposes of example only. An embodiment of the invention may be implemented in any type of computer system or programming or processing environment, including embedded devices (e.g., web phones, etc.) and "thin" client processing environments (e.g., network computers (NC's), etc.) that support a virtual machine.

Thus, a method and apparatus for cataloguing multimedia data using surveying data has been described in conjunction with one or more specific embodiments. The invention is defined by the claims and their full scope of equivalents.

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<u>CLAIMS</u>

1. In a computer system, associating multimedia data with surveying data comprising:

obtaining an association between survey data and at least one catalogue element of a catalogue, said at least one catalogue element associated with said multimedia data;

searching said survey data to identify said at least one catalogue element; identifying said multimedia data using said at least one catalogue element.

2. The surveying method of claim 1 wherein said survey data comprises at least one survey element, said survey element comprises at least one attribute that associates said at least one survey element with said at least one catalogue element.

3. The method of claim 2 wherein said survey data comprises at least one question element.

4. The method of claim 2 wherein said survey data comprises at least one answer element.

5. The method of claim 2 wherein said at least one attribute identifies at least one segment element of said catalogue.

6. The method of claim 1 wherein said catalogue element is a phrase element.

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7. The method of claim 1 wherein said catalogue element is a keyword, said identifying said multimedia data further comprises:

identifying at least one phrase associated with said keyword, said at least one phrase being associated with said multimedia data.

8. The method of claim 1 wherein said catalogue element is a type, said identifying said multimedia data further comprises:

identifying at least one keyword associated with said type; identifying at least one phrase associated with said at least one keyword, said at least one phrase being associated with said multimedia data.

10 9. The method of claim 1 wherein said catalogue element is a segment, said identifying said multimedia data further comprises:

identifying at least one phrase associated with said segment, said at least one phrase being associated with said multimedia data.

10. A memory for storing survey information accessible by at least onecomputer program being executed on a machine, said survey information comprising:

a first set of elements stored in said memory, said first set of elements usable to retain survey data;

a second set of elements stored in said memory, said second set of elements being associated with at least one of said first set of elements, said second set of elements usable to retain catalogue data;

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multimedia data in said memory, said multimedia data associated with said at least one of said first set of elements using said second set of elements.

11. The memory of claim 10 wherein said first set of elements comprises at least one survey element, said survey element comprises at least one attribute that ' associates said at least one survey element with said at least one catalogue element.

12. The memory of claim 11 wherein said first set of elements comprises at least one question element.

13. The memory of claim 11 wherein said first set of elements comprises at least one answer element.

14. The memory of claim 11 wherein said at least one attribute identifies at least one segment element of said second set of elements.

15. The memory of claim 10 wherein said second set of elements comprises a keyword, said second set of elements further comprising:

at least one phrase associated with said keyword, said at least one phrase being associated with said multimedia data.

16. The memory of claim 10 wherein said second set of elements comprises a type element, said memory further comprising:

at least one keyword associated with said type;

at least one phrase associated with said at least one keyword, said at least one phrase being associated with said multimedia data.

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17. The memory of claim 10 wherein said second set of elements comprises a segment, said memory further comprising:

at least one phrase associated with said segment, said at least one phrase being associated with said multimedia data.

18. A computer program product comprising:

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a computer usable medium having computer readable program code embodied therein configured to associate multimedia data with surveying data comprising:

computer readable program code configured to cause a computer to obtain an association between survey data and at least one catalogue element of a catalogue, said at least one catalogue element associated with said multimedia data;

computer readable program code configured to cause a computer to search said survey data to identify said at least one catalogue element;

15 computer readable program code configured to cause a computer to identify said multimedia data using said at least one catalogue element.

19. The computer program product of claim 18 wherein said survey data comprises at least one survey element, said survey element comprises at least one attribute that associates said at least one survey element with said at least one catalogue element.

20. The computer program product of claim 19 wherein said survey data comprises at least one question element.

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21. The computer program product of claim 19 wherein said survey data comprises at least one answer element.

22. The computer program product of claim 19 wherein said at least one attribute identifies at least one segment element of said catalogue.

23. The computer program product of claim 18 wherein said catalogue element is a phrase element.

24. The computer program product of claim 18 wherein said catalogue element is a keyword, said computer readable program code configured to cause a computer to identify said multimedia data further comprises:

computer readable program code configured to cause a computer to identify at least one phrase associated with said keyword, said at least one phrase being associated with said multimedia data.

25. The computer program product of claim 18 wherein said catalogue element is a type, said computer readable program code configured to cause a computer to identify said multimedia data further comprises:

computer readable program code configured to cause a computer to identify at least one keyword associated with said type;

computer readable program code configured to cause a computer to identify at least one phrase associated with said at least one keyword, said at least one phrase being associated with said multimedia data.

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26. The computer program product of claim 18 wherein said catalogue element is a segment, said computer readable program code configured to cause a computer to identify said multimedia data further comprises:

computer readable program code configured to cause a computer to identify at least one phrase associated with said segment, said at least one phrase being associated with said multimedia data.

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ABSTRACT OF THE INVENTION

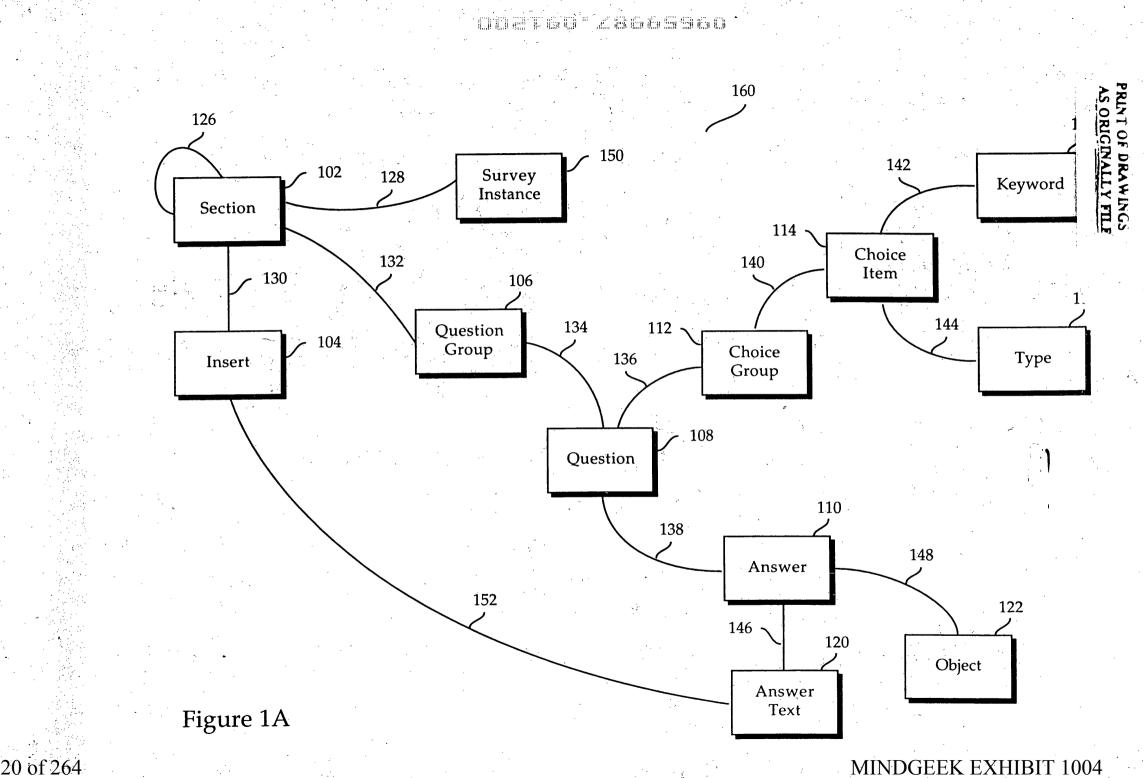
A method and apparatus is described wherein survey data collected from different survey versions may be retained in a cohesive data, or knowledge, base that may be used to catalogue multimedia data. A survey schema is defined that comprises survey elements that may be used to define surveys and capture survey data. In one or more embodiments of the invention, survey data may be linked to a multimedia cataloguing system. The linked survey data may be used alone or in combination with the cataloguing system to retrieve multimedia data.

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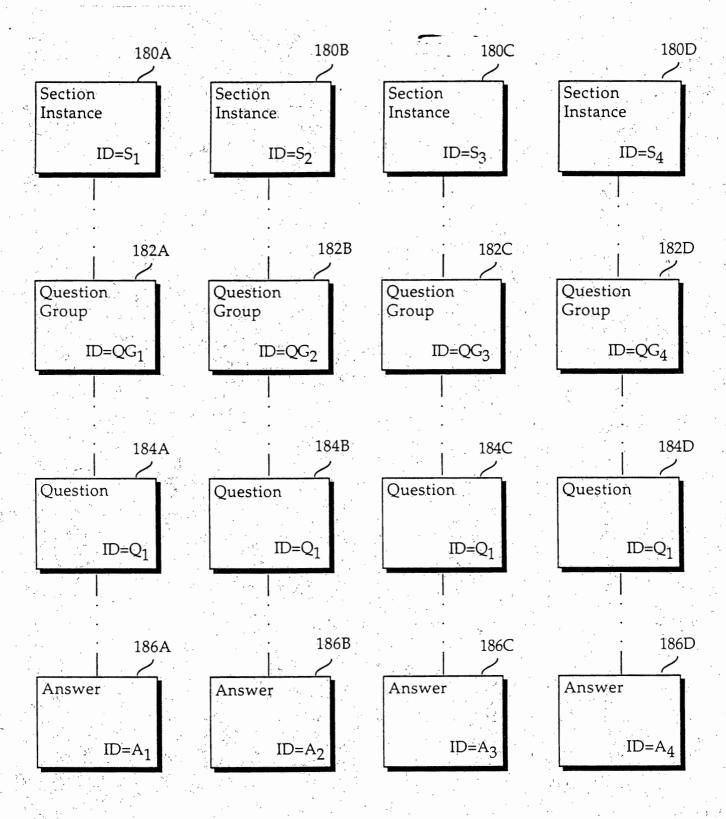
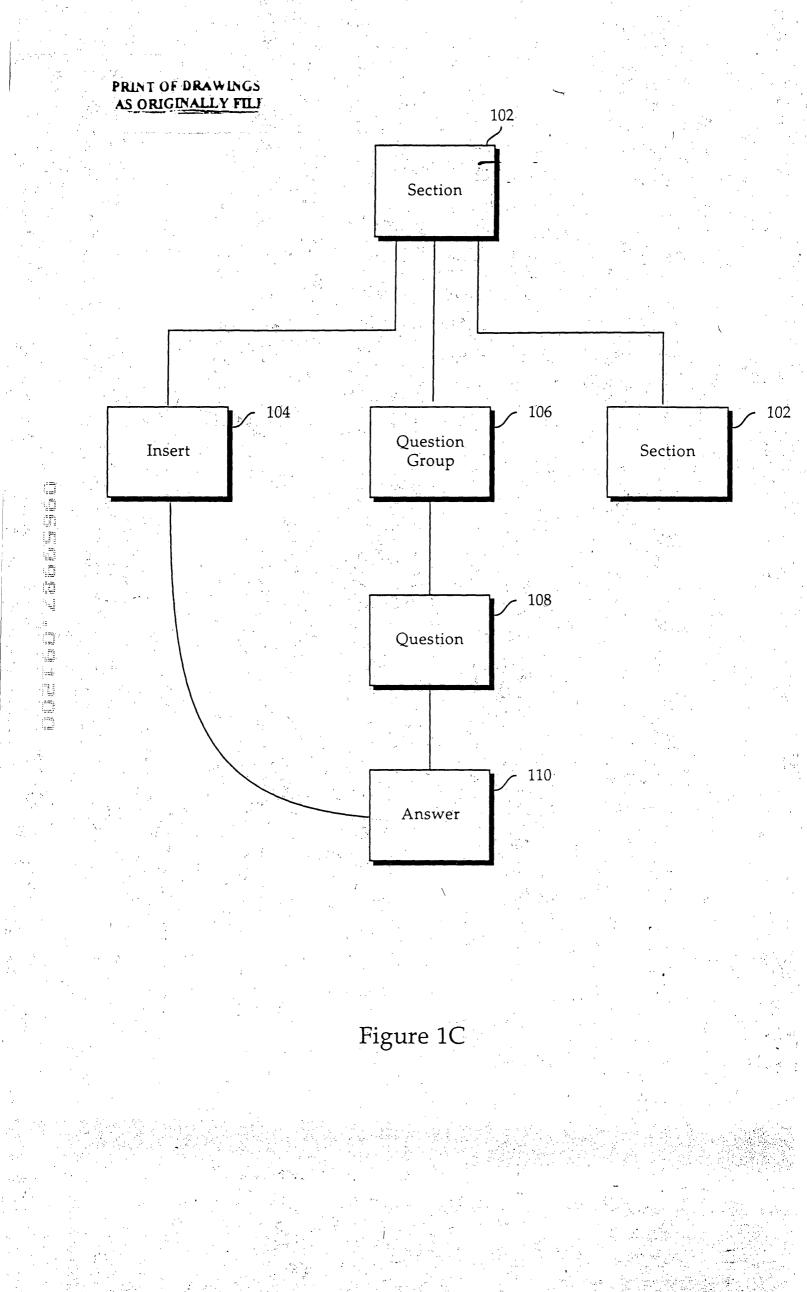
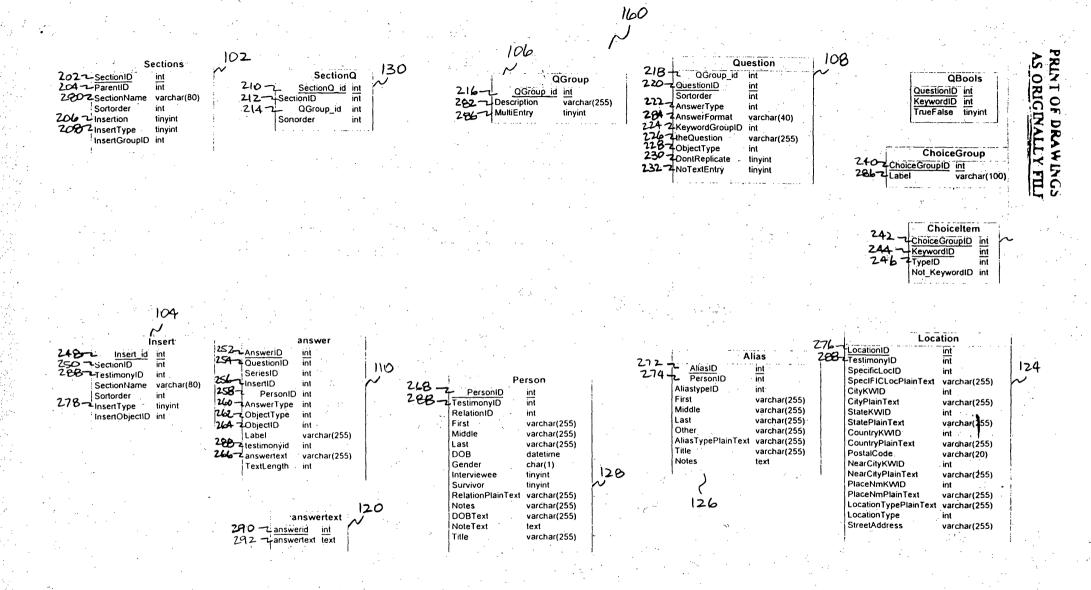


Figure 1B

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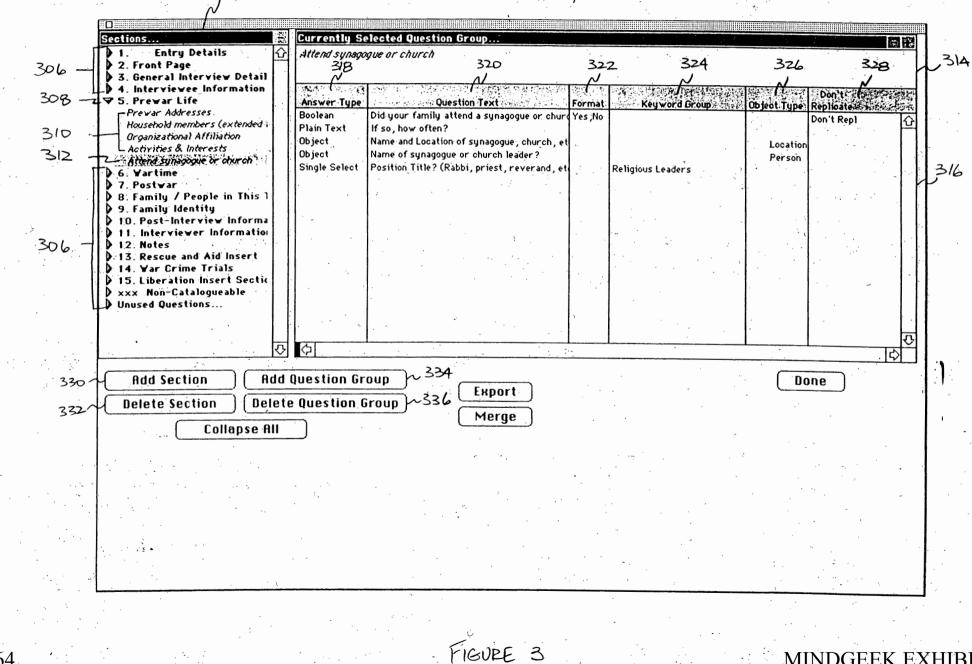
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FIGURE 2

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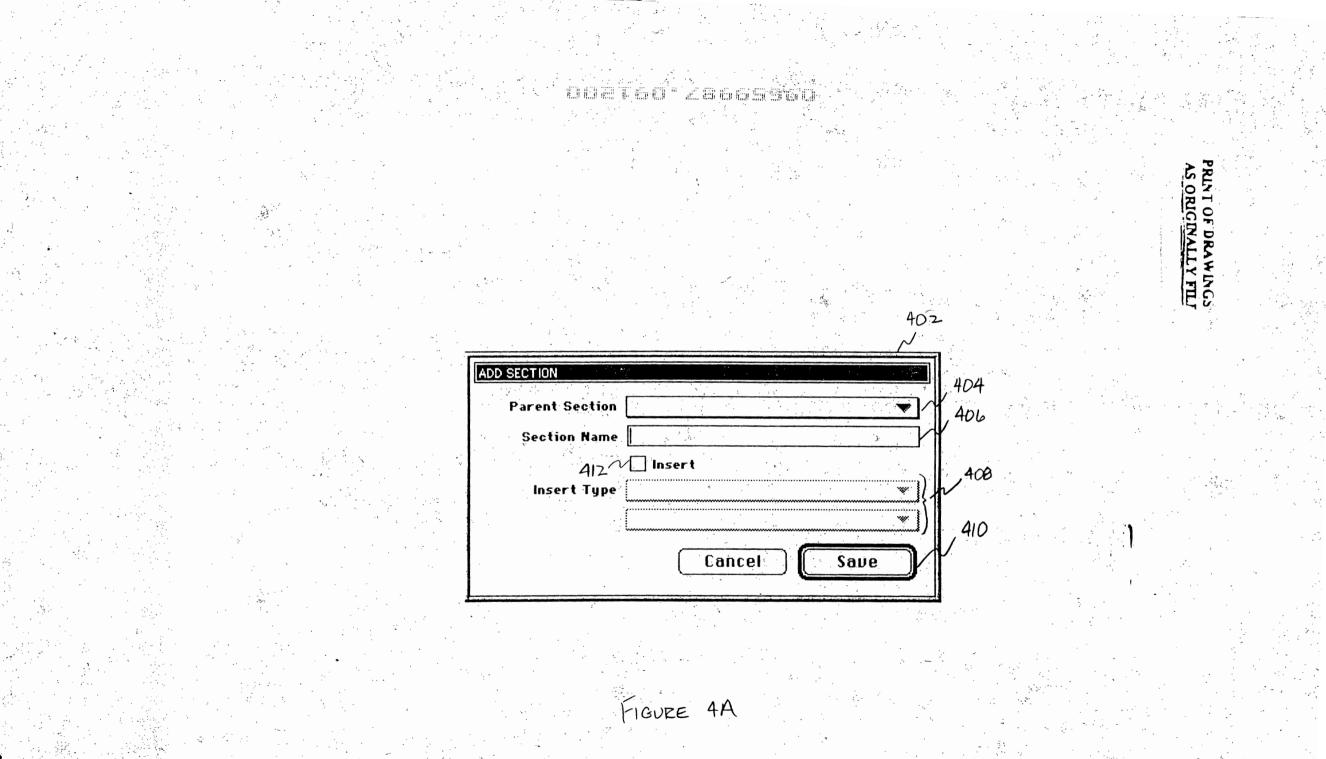
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FIGURE 4B

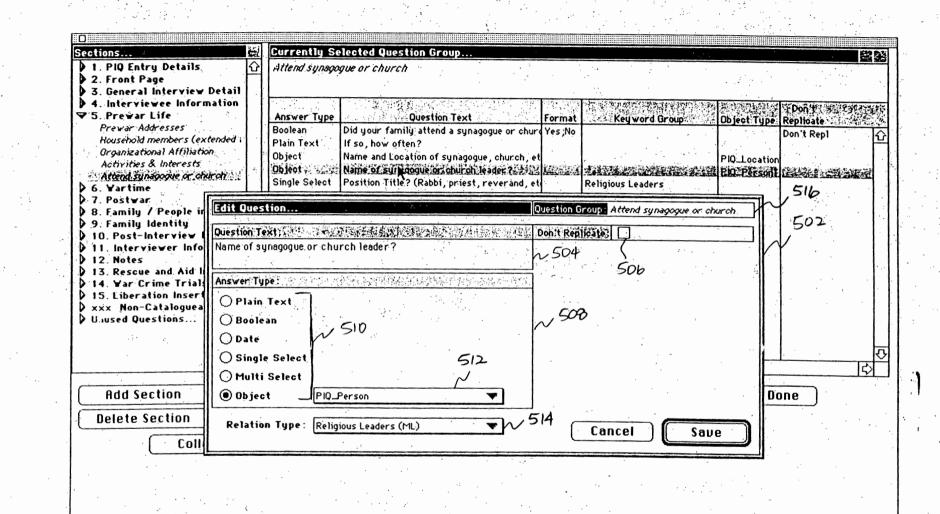
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FIGURE 5

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FIGURE 6

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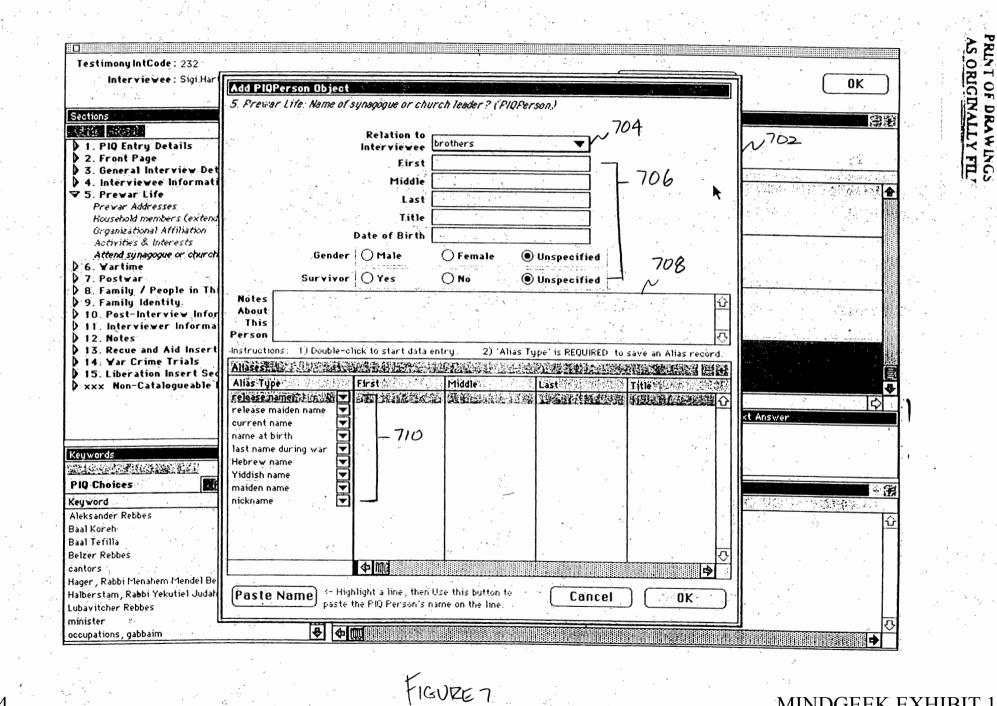
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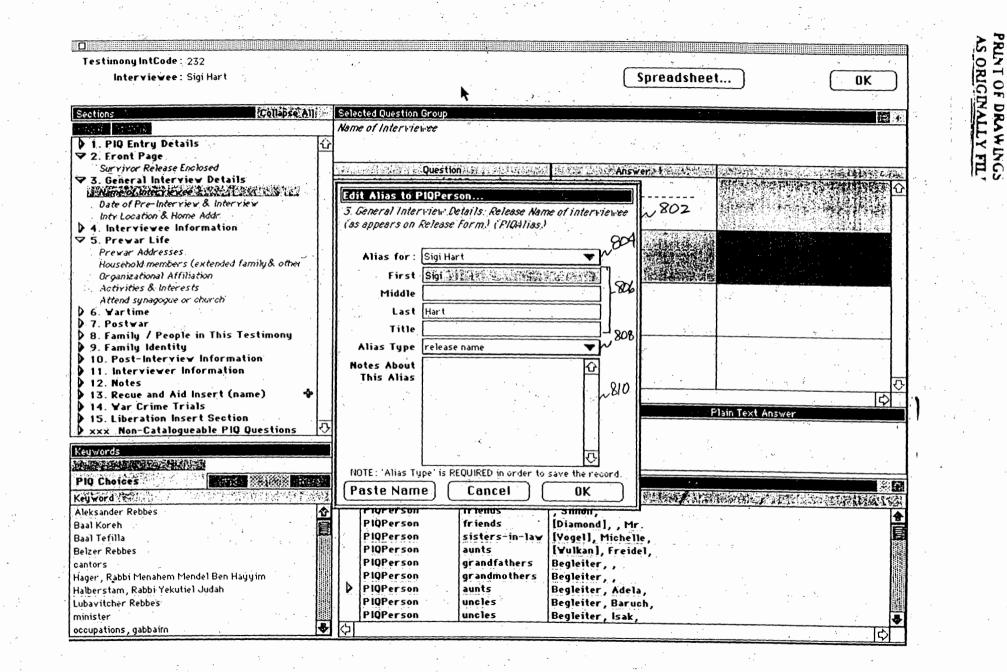
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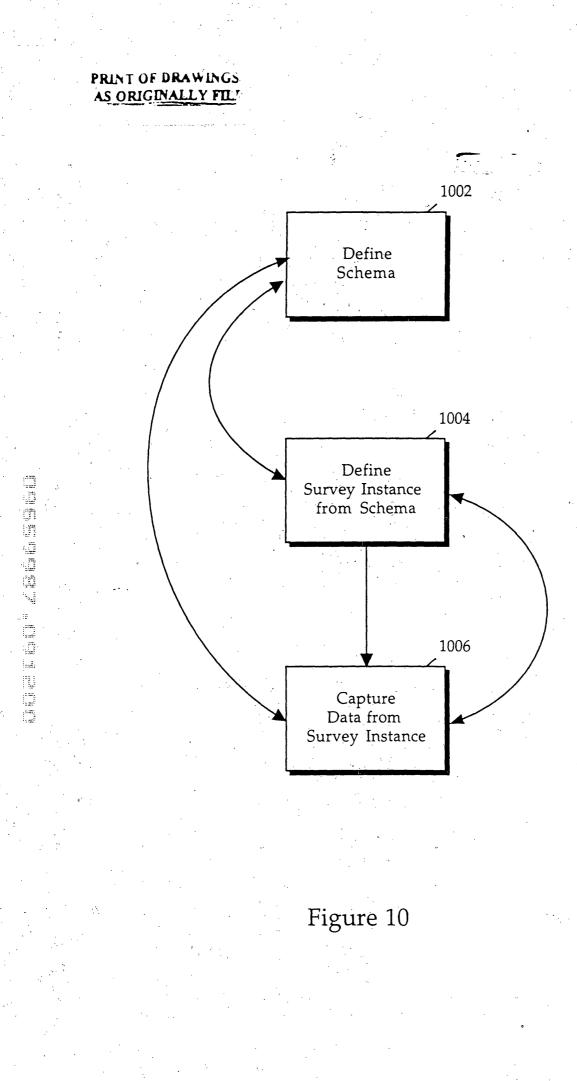
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B		914		
City/Town/Village /Shtetle	Berlin (Germany)			
Nearest Large City				
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State/Province				
		Proposed Ke		
Country	Germany	Proposed Key	word Comments	
				쁘
Postal Code				
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Paste Location	Cancel	<u>ОК</u>		•
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FIGURE 9



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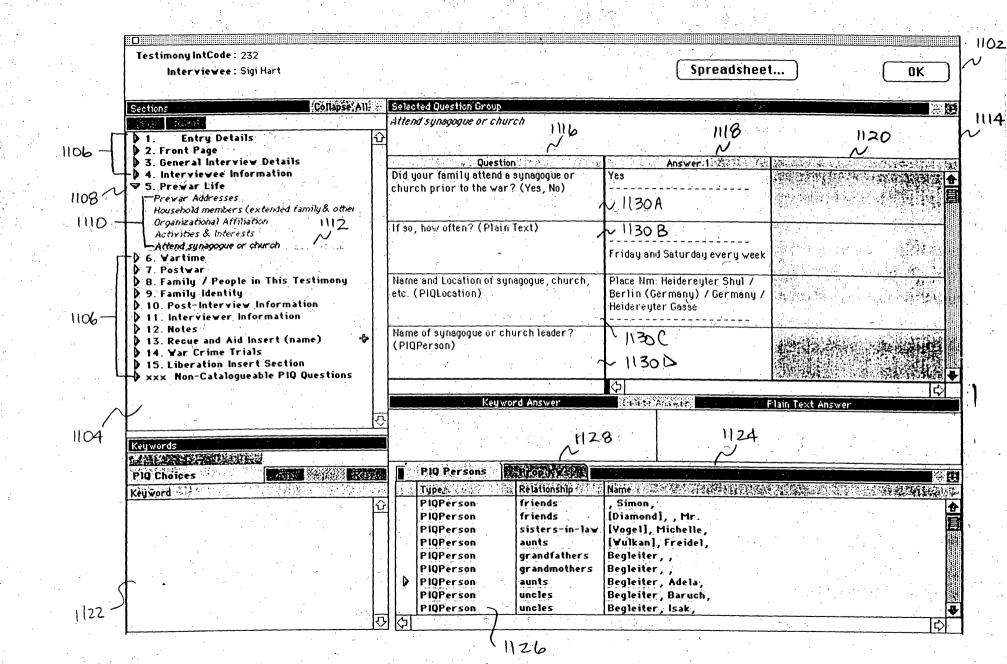
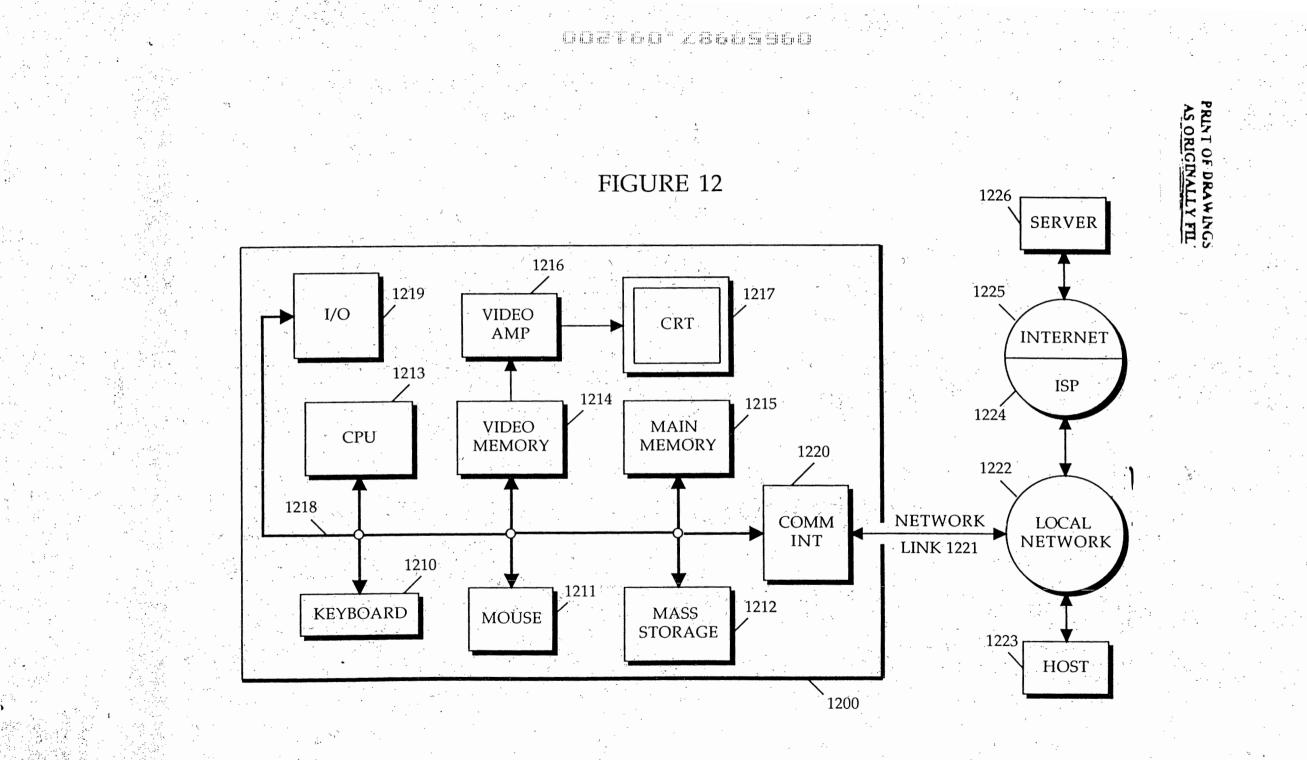


FIGURE 11

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MINDGEEK EXHIBIT 1004

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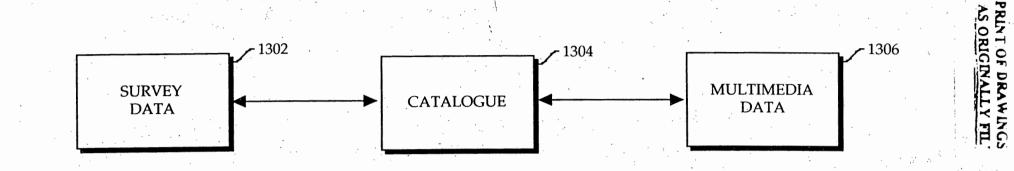


Figure 13

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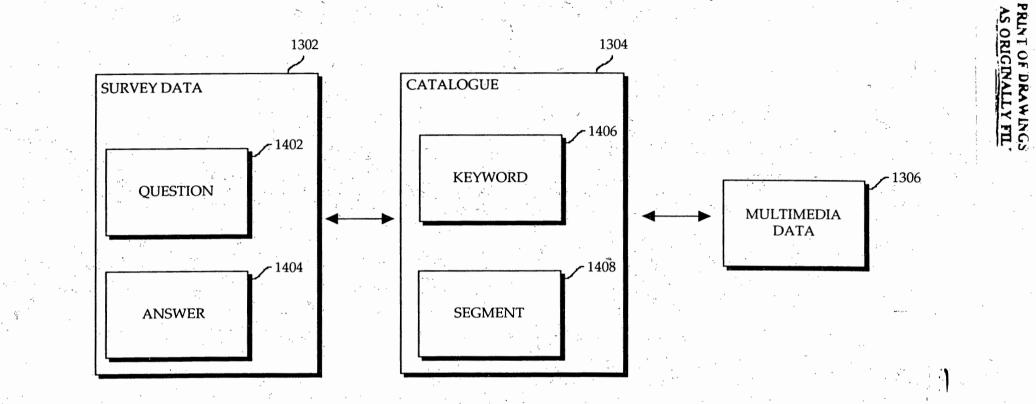
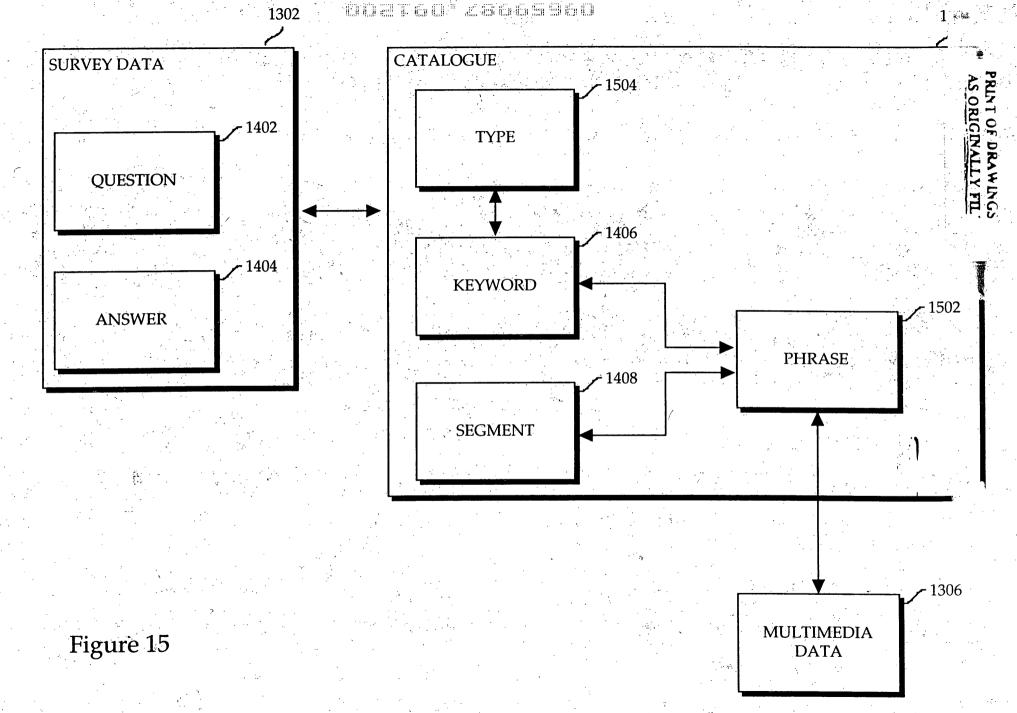


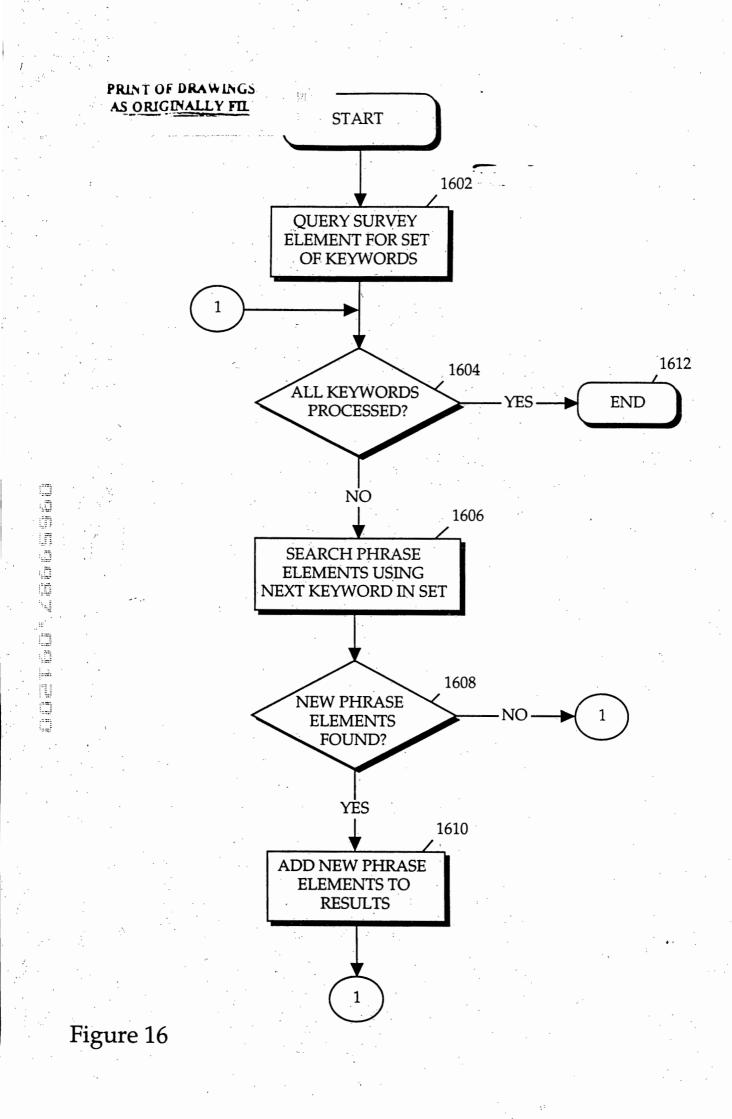
Figure 14

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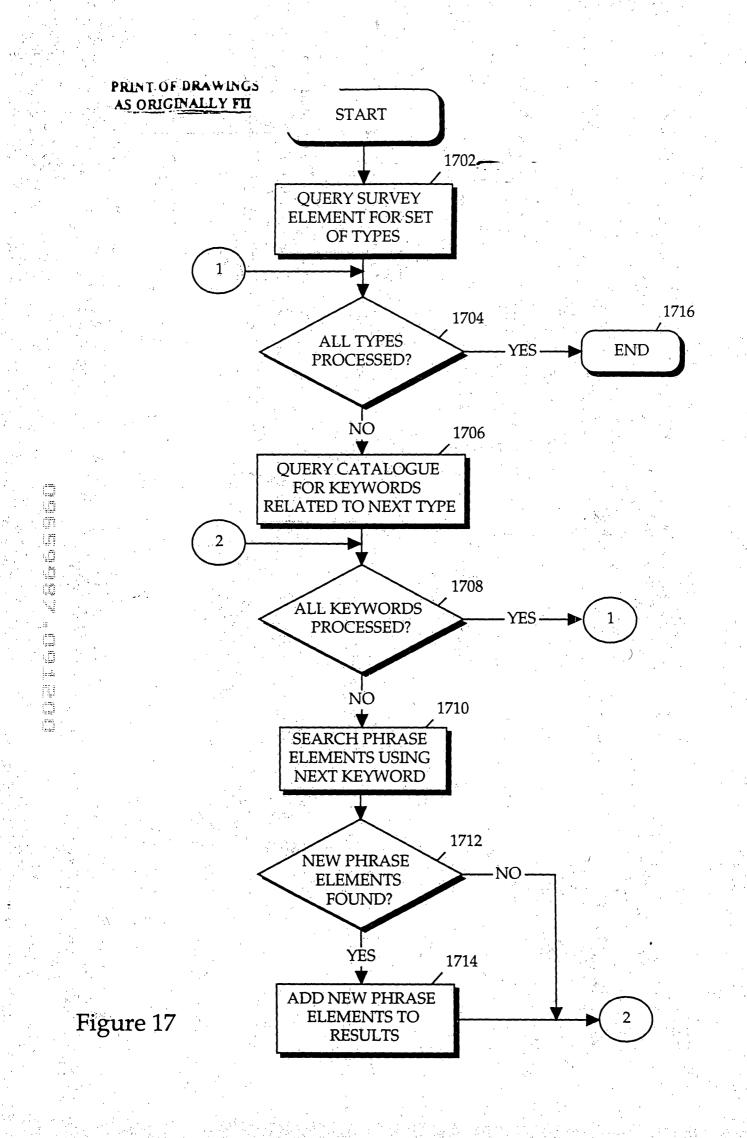
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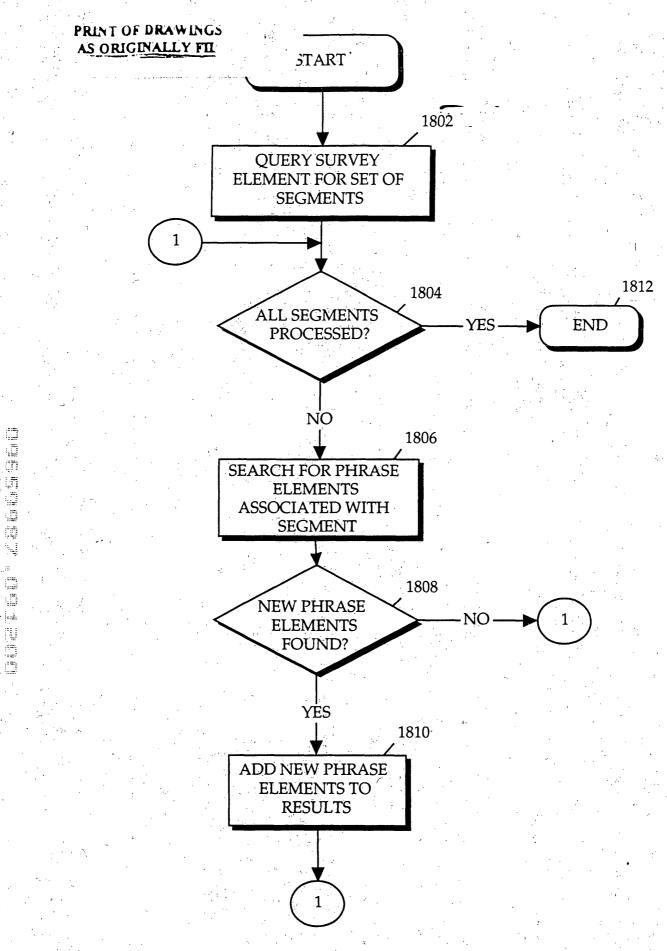


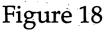
Page 138 of 264



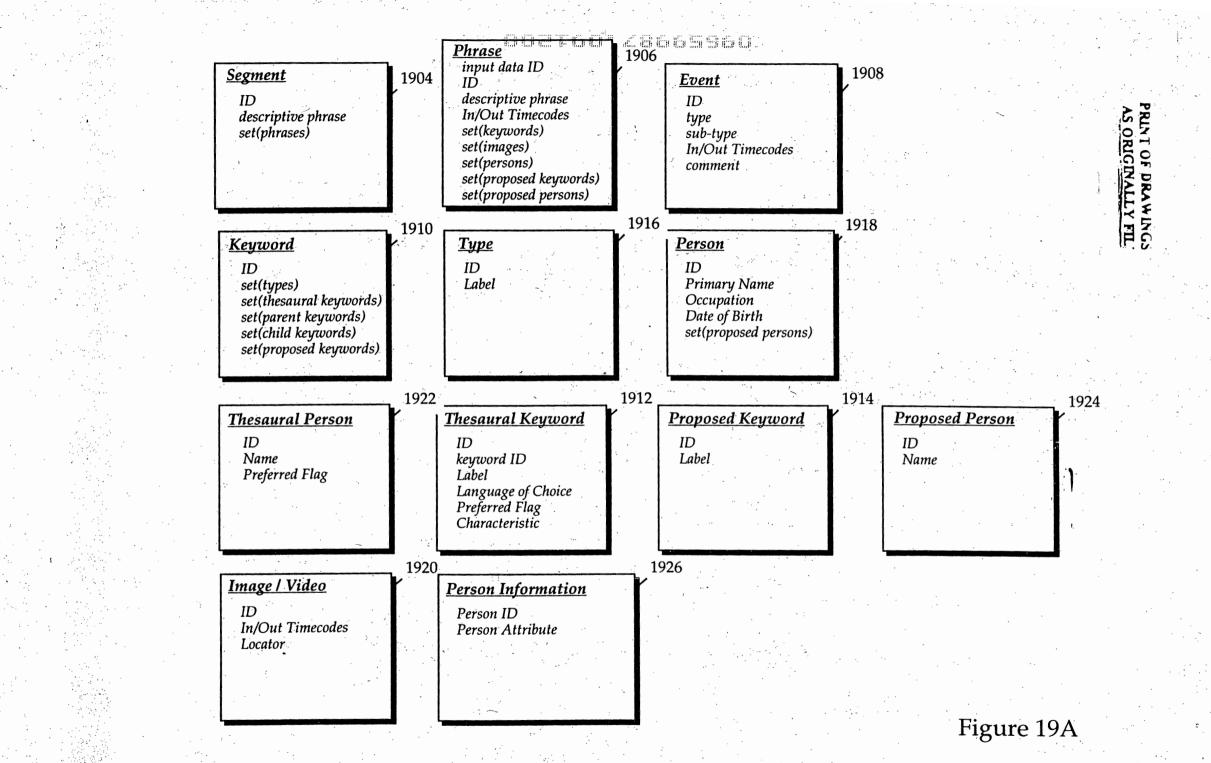
MINDGEEK EXHIBIT 1004

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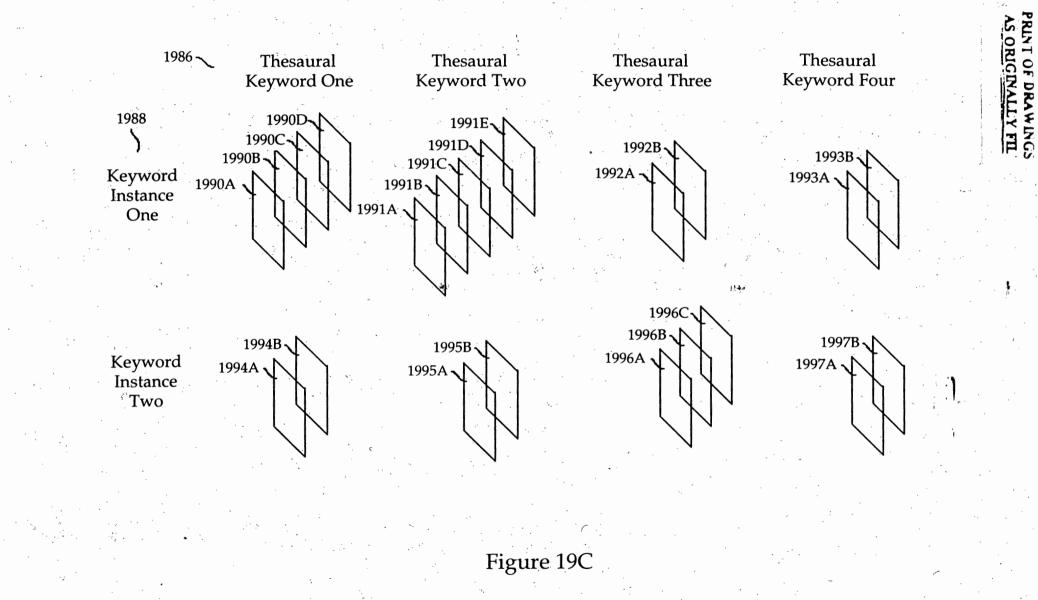


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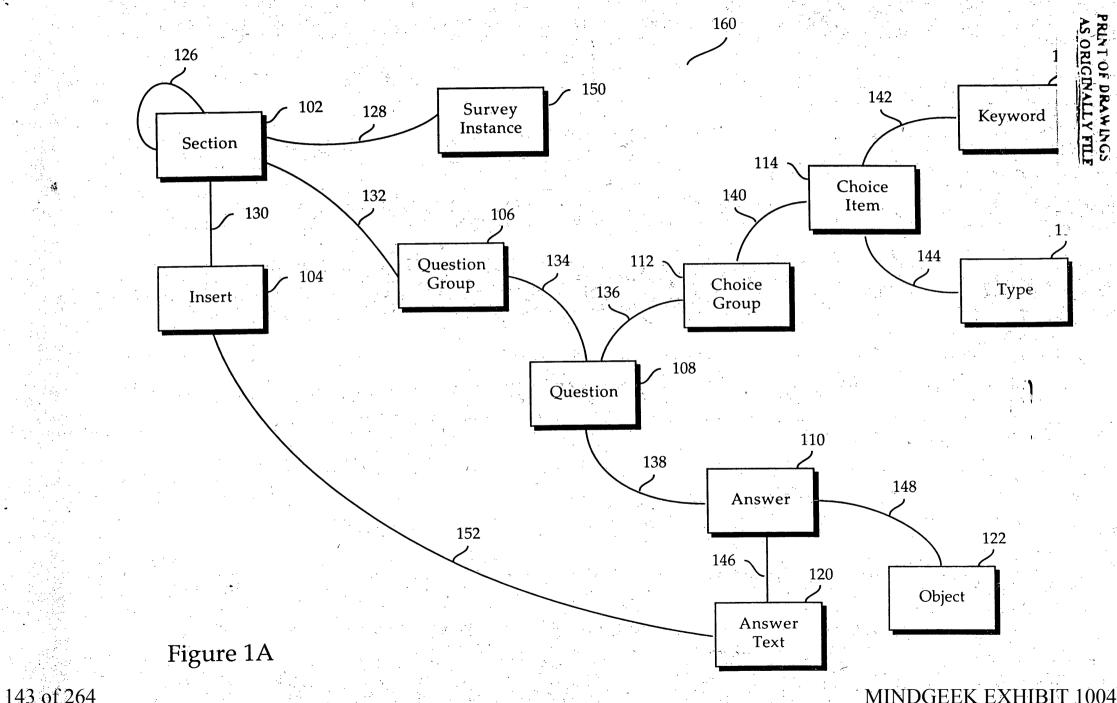
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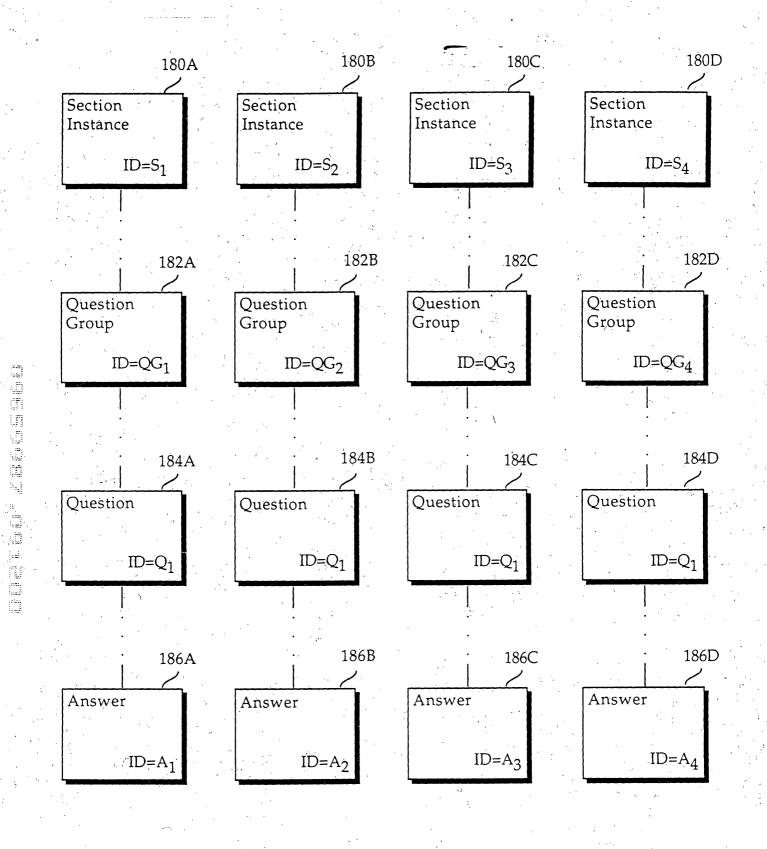
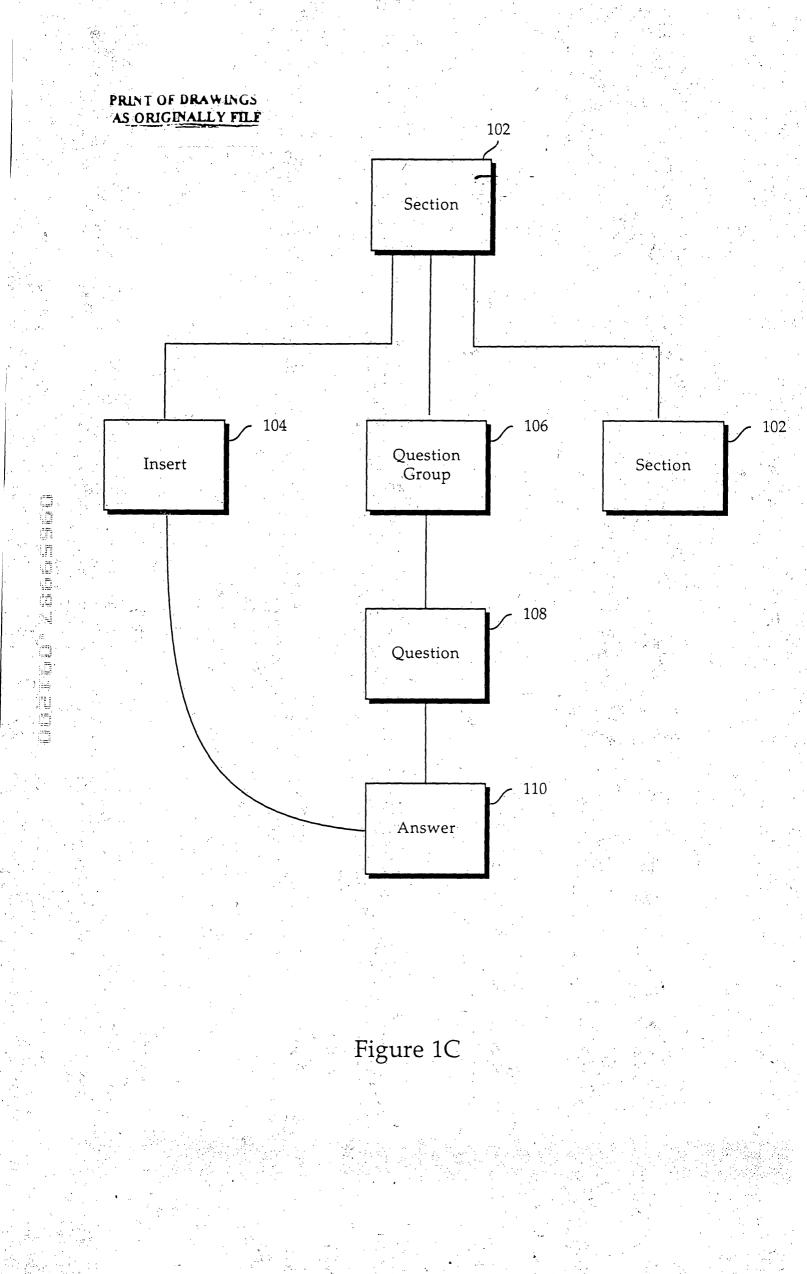


Figure 1B

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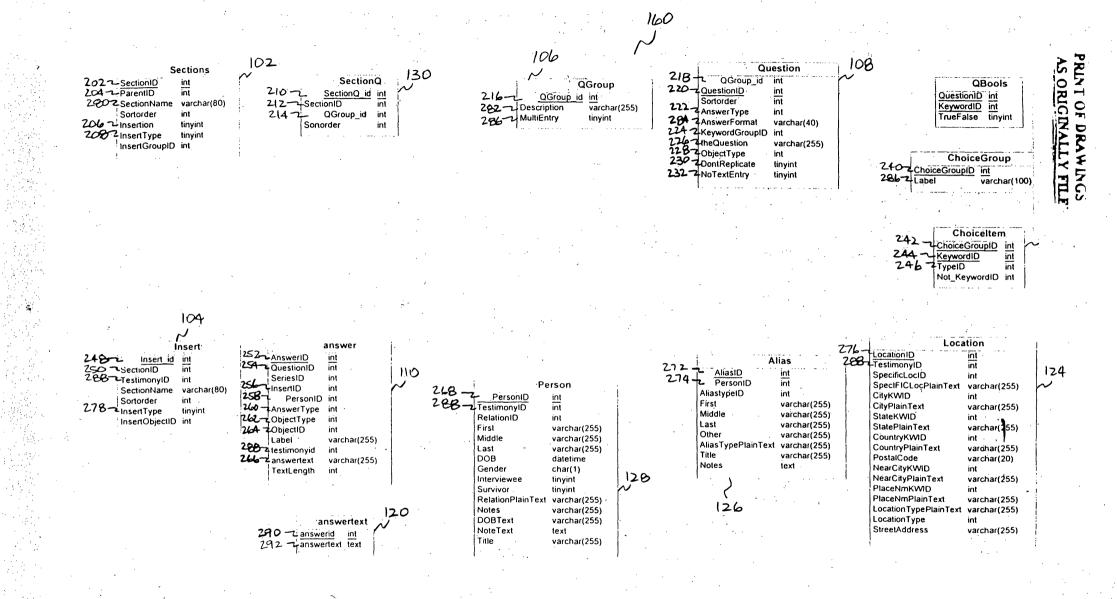
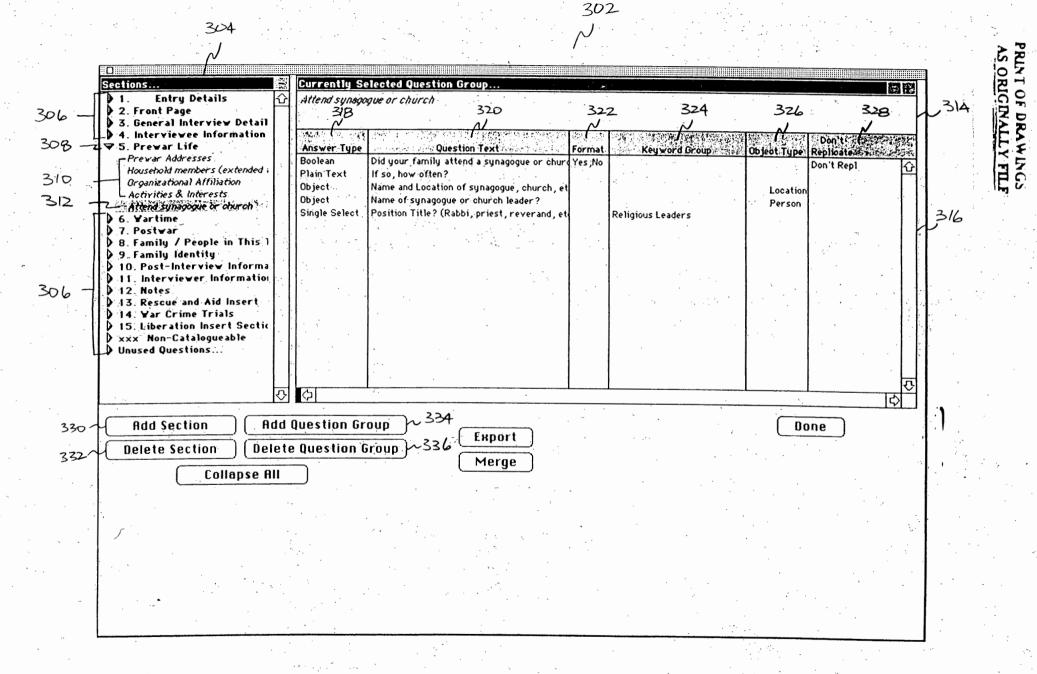


FIGURE 2

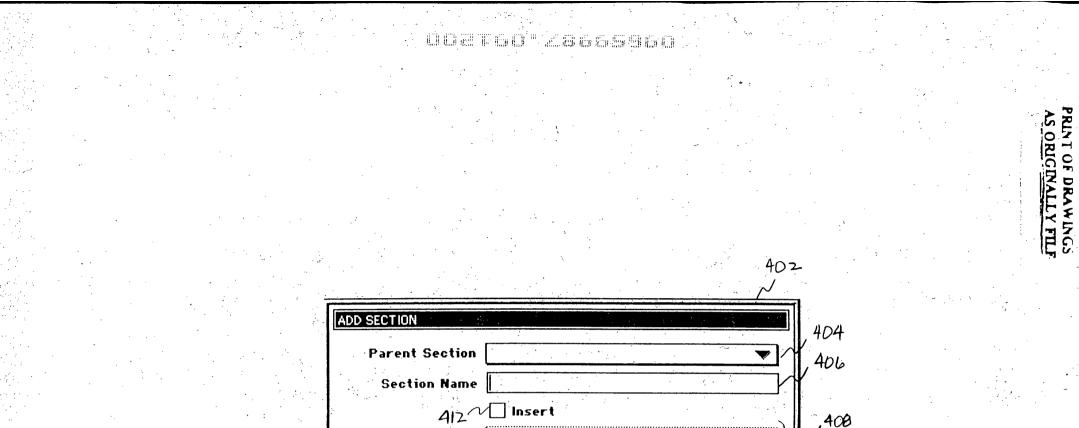
Page 146 of 264

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FIGURE 3



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412 Insert Insert Type Cancel Save

FIGURE 4A

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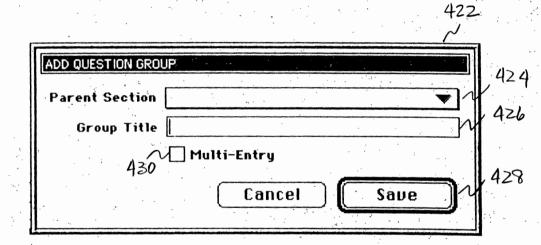


FIGURE 4B

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MINDGEEK EXHIBIT 1004

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Sections 1. PIQ Entry Details	<u>に</u> 日本	Currently Selected Question Group
2. Front Page	. H	Attend synagogue or church
 3. General Interview D 4. Interviewee Inform 		
♥ 5. Prewar Life	i I	Answer Type Question Text Format Keyword Group Object Type Replicate
Prewar Addresses Household members (exte	ended :	Boolean Did your family attend a synagogue or chur Yes;No Don't Repl
Organizational Affiliation		Plain Text If so, how often? Object Name and Location of synagogue, church, et PIO_Location
Activities & Interests		Digeot Name and Location of synagogue, church, et PIQ_Location Digeot Name of synagogue or church leader ?
Attend synagogue or chu	ret i	I Single Select I Position Title? (Rabbi priest reverand at I Daligious Landows I
D 7 Postwar		Kengious Leaders 516
	Edit Ques	
 9. Family Identity 10. Post-Interview 	Question To	
▶ 11. Interviewer Info	Name of su	ynagogue or church leader?
12. Notes 13. Rescue and Aid I	· ·	506
0 14. Yar Crime Trials	Answer Ty	Jpe The second s
15. Liberation Insert	O Plain	Taxt
XXX Non-Cataloguea Unused Questions	-	
V Ulusea Questions	O Boole	
*	() Date	
	O Singl	le Select 512
	🔘 Multi	i Select
Add Section	🖲 Ob jec	ct PIQ_Person V
Delete Section	Relatio	on Type: Religious Leaders (ML) 514 Cancel Save
Coll	· .	

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FIGURE 5

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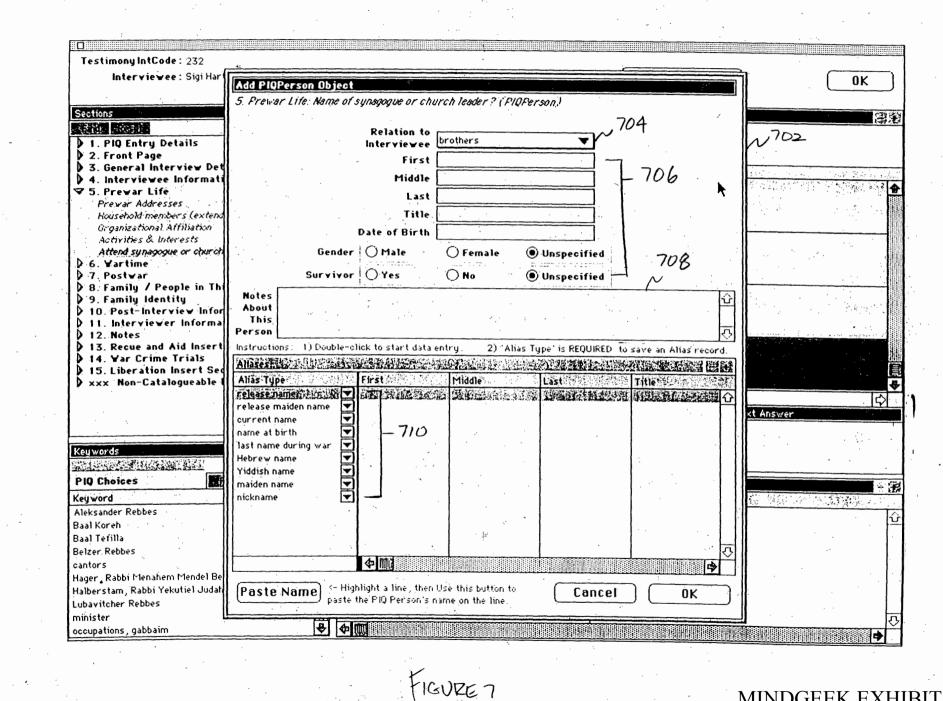
			604				-
Choice Groups			Drag from I	Keyword Authority I	o Admin Choices		
10 Choice Gro 18 Alias Types			When a Key Choices" ar	word is dragged, the nd "User View".	e Keyword will be added	i to both "Admin	
19 Alias Types 173 Arrived from 247 Attributes an 242 Carps (Co. P	r? (ML) d Roles		current keu	be is dragged, the Ty ywords of that Type	pe is displayed in "Adm are added to "User Viev	in Choices" and the w".	
164 Camps (ML) 163 Children (ML))	a filosonia o Galari An I y Yongo (n. 1997)ani ya matsa akato (n. 1997)ani ya	lf an inappr may be exc	cluded by dragging it	pears in "User View" fro to the trash. This allow	om dragging a Type, it is the user to create a	
238 Circumstance 2 Cities, towns 公	, villages, shtetls		Inst of exce	eptions to a desired T	ype.		
User view: Item	Source	6/0 Admin choices: Choice	Source	e i i i i i i i i i i i i i i i i i i i	rd Authority		616
(PIQ) post-liberati	on con: camps Type 1	NOT (z)Brauweil	on bamps ler (Germany : Camp. Type	10000	I		
	ia (CONTAINER ONL Type		u (1933-1934) (Ger Type Dürrgoy (Germany : Type	> acad	jvord lemic life (CONTAINER	Type RON Miscellaneous 🔂	
Stalag IV G, Oscha Kulmhof (Poland	tz (Germany 🛛 PO'w Type 🛛 📗	NOT (z)Chemnitz	oor (Germany : Camj Type : (Germany : Camp) – Type	> cult > disc	ural and social life (C rimination and intole	ONI cultural and series and Miscellaneous	
Sobibor (Poland :::(NOT (z)Columbia	1933-1934) (Germa Type -Haus (Germany : Ca Type	> econ	nomic life (CONTAINEF ilu life	R ON Miscellaneous family life	
Treblinka II (Polan Belzec II (Poland		NOT (z)Dresden- NOT (z)Gollnow (Trachenberge (Gerr Type (Germany : Camp) Type	> food > forc	and eating (CONTAINE ed labor experience (ERC Food and Drink	
SS mobile constru concentration cam		NOT (z)Heuberg	stein (Germany : Can Type (Germany : Camp) Type	> gove	ernment and political l	life Miscellaneous	
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Hajduhadhaz (Húng	: Camp) Type 🕻		and (Germany : Camt Type [r				

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FIGURE 6

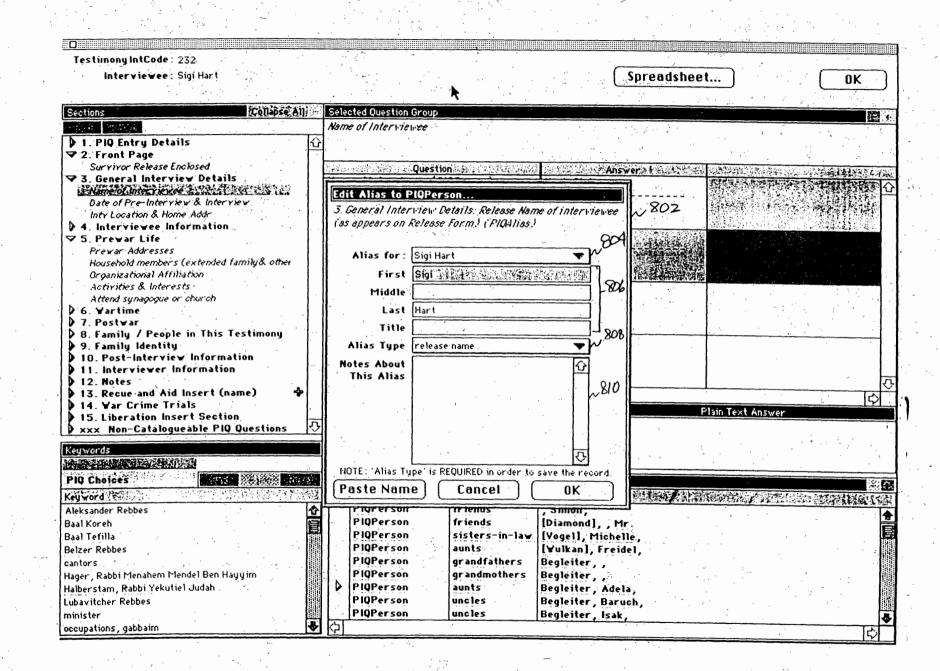
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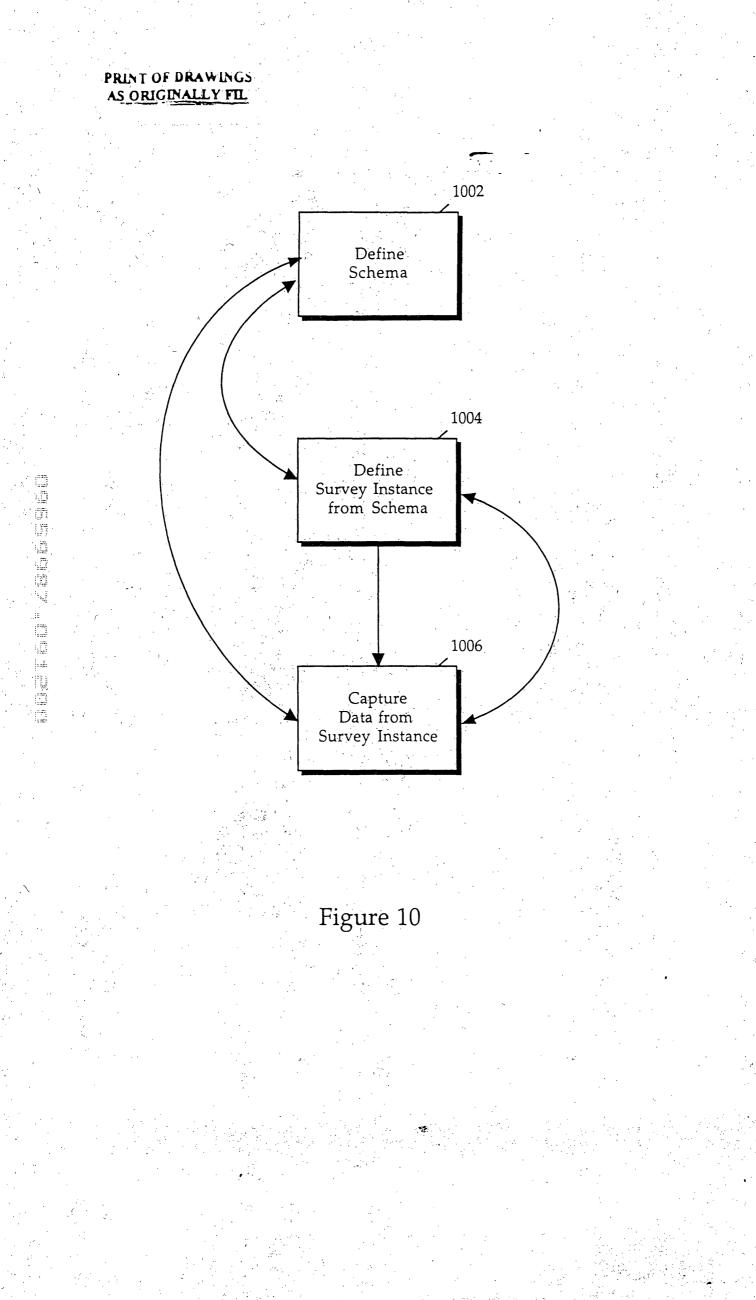
2.4

stimony IntCode : 232	~902	Spreadsbeet
Edit Location Object		Keywords
5. Prewar Life: Name and Location of synagogue, chur	rch, etc. (FIQLocation.)	PIQ Choices
Type of Location synagogues	√ 906 912	Keyword Click a box to fill in this list. Then drag a keyword.
<u>Enter Plain Text</u> <u>Cind-F to Search</u>	910 <u>Click to select</u> , N N <u>Drag a Keyvord</u> 904	
Place Name (Camp, Heidereyter Shul School, Ghetto, etc.)		
Street Address		
	914	
City/Town/Village /Shtetle	Berlin (Germany)	
Nearest Large City		
State/Province		Proposed Keywords
Country	Germany	Proposed Keyword
Postal Code		
Specific Location Heidereuter Gasse	 ₽	
908		
Paste Location	Cancel OK	
)Ä□(A□4z²select label, comments, ppkwid, pkw 🕹 🗣 🕅		

FIGURE 9

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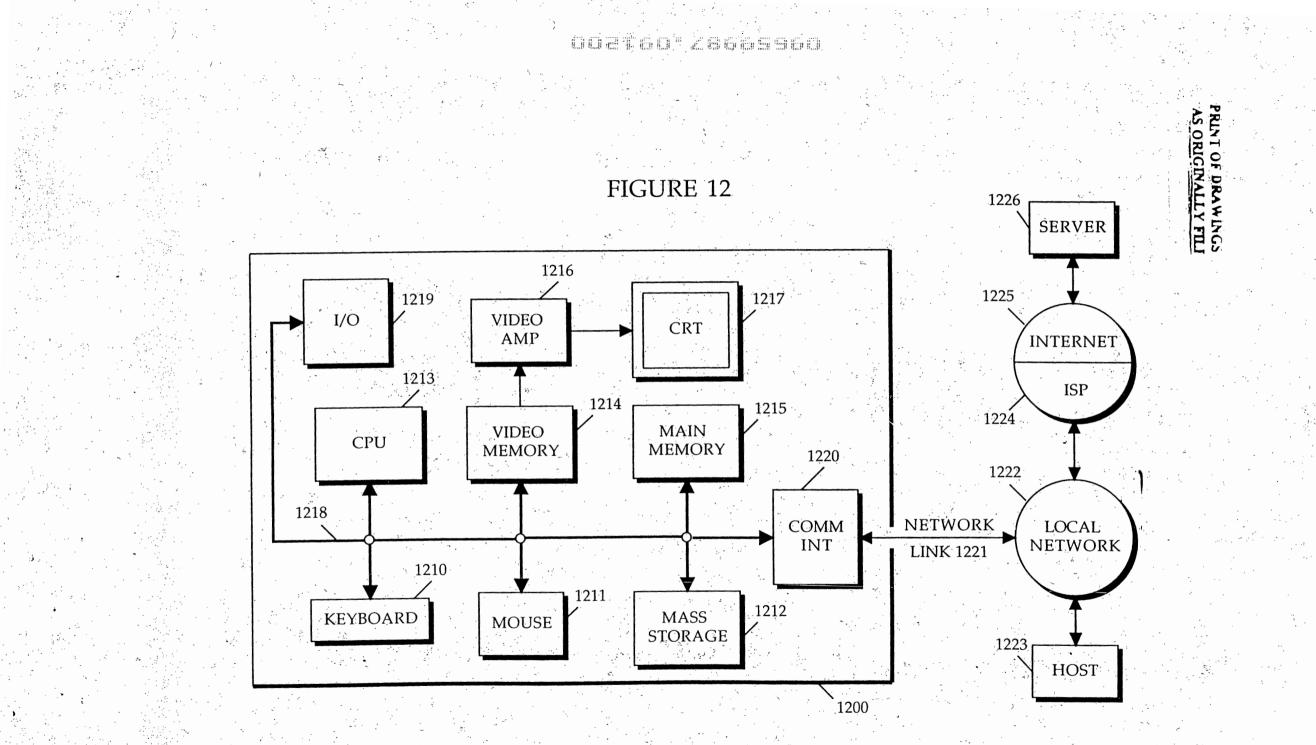
Testimony IntCode: 232			
Interviewee : Sigi Hart		Spreadshee	t OK
			<u> </u>
	Selected Question Group		
	Attend synagogue or church	1118	
1 1. Entry Details	2 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		1120
 2. Front Page 3. General Interview Details 	Question	Answer 1	$\sim \sim$
+) 4. Interviewee Information	Did your family attend a synagogue or	Yes	THE PROVIDENCE OF MERCENNER
▼ 5. Prewar Life	church prior to the war? (Yes, No)		
Prewar Addresses Household members (extended family& other		N 1130A	
Organizational Affiliation 1117	If so, how often? (Plain Text)		
Activities & Interests	11 So, now often ((Plain fext))	V 1130 B	
Attend sunagogue or church		Friday and Saturday every week	
D 7 Postvar			
8. Family / People in This Testimony	Name and Location of synagogue, church,	Place Nm: Heidereyter Shul /	
 9. Family Identity 10. Post-Interview Information 	etc. (PIQLocation)	Berlin (Germany) / Germany / Heidereyter Gasse	
11. Interviewer Information			
12. Notes	Name of synagogue or church leader?	1300	
 ▶ 13. Recue and Aid Insert (name) ▶ 14. Yar Crime Trials 	(PIQPerson)		
15. Liberation Insert Section		~ 1130 D	
×xx Non-Catalogueable PIQ Questions	·	· · · · · · · · · · · · · · · · · · ·	
	Keyword Answer		
	Reg word Allswer	JEGERESE, ASIA WARE).	Plain Text Answer
14	2	8 1124	
Keywords	1	8 124	
		<i>P</i>	
PIQ Choices	PIQ Persons		
Keyword	Type Relationship	Name :	
	PIOPerson friends PIOPerson friends	, Simon,	
	PlQPerson sisters-in-law	[Diamond], , Mr. [Vogel], Michelle	
	PiQPerson aunts	[¥ulkan], Freidel,	
	PIQPerson grandfathers	Begleiter, ,	
	PIQPerson grandmothers	Begleiter, ,	
\uparrow	PIQPerson aunts PIQPerson uncles	Begleiter, Adela, Regleiter, Rarnah	
	PIQPerson uncles	Begleiter, Baruch, Begleiter, Isak,	
		1	

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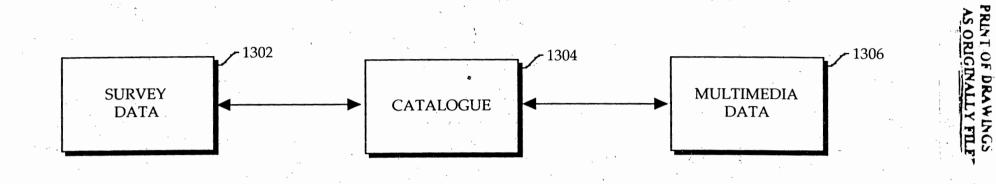
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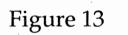


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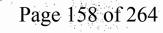






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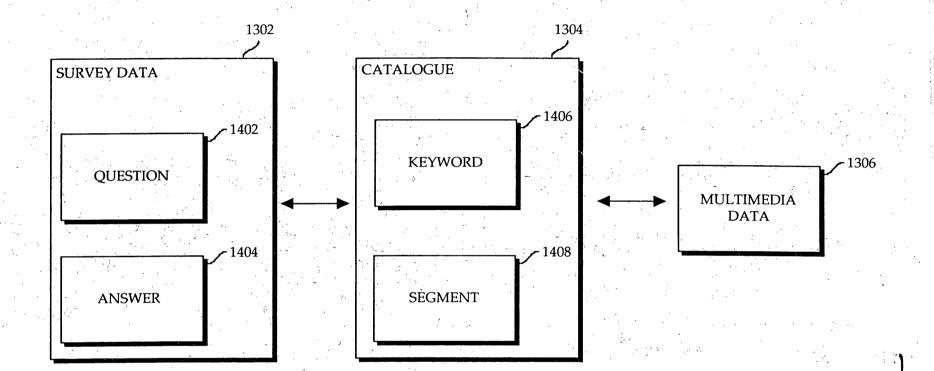


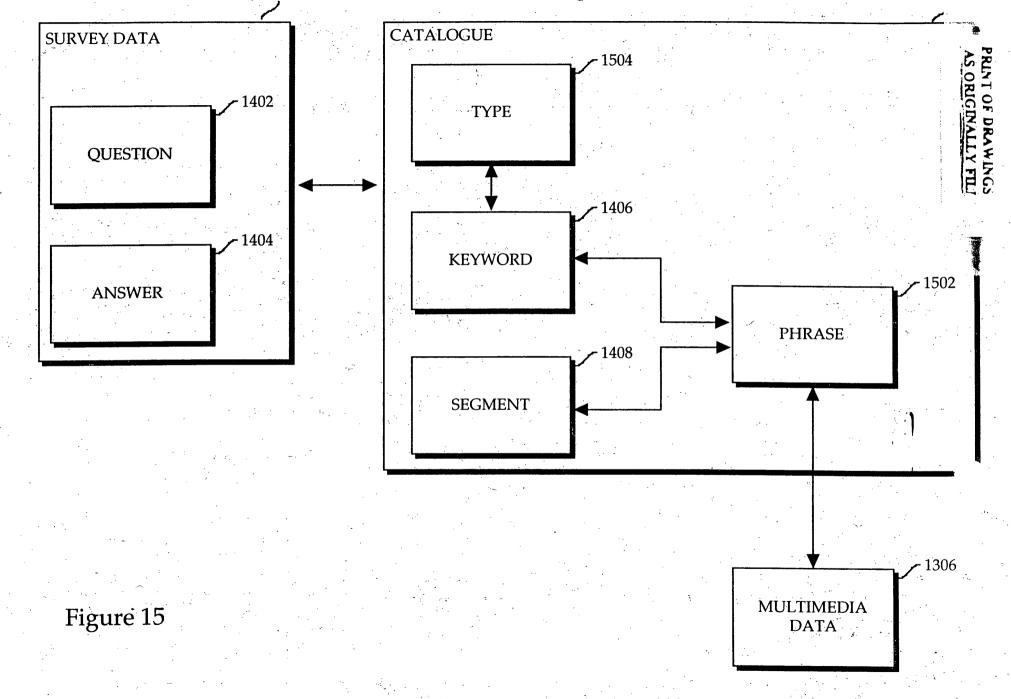
Figure 14

MINDGEEK EXHIBIT 1004

PRINT OF DRAWINGS

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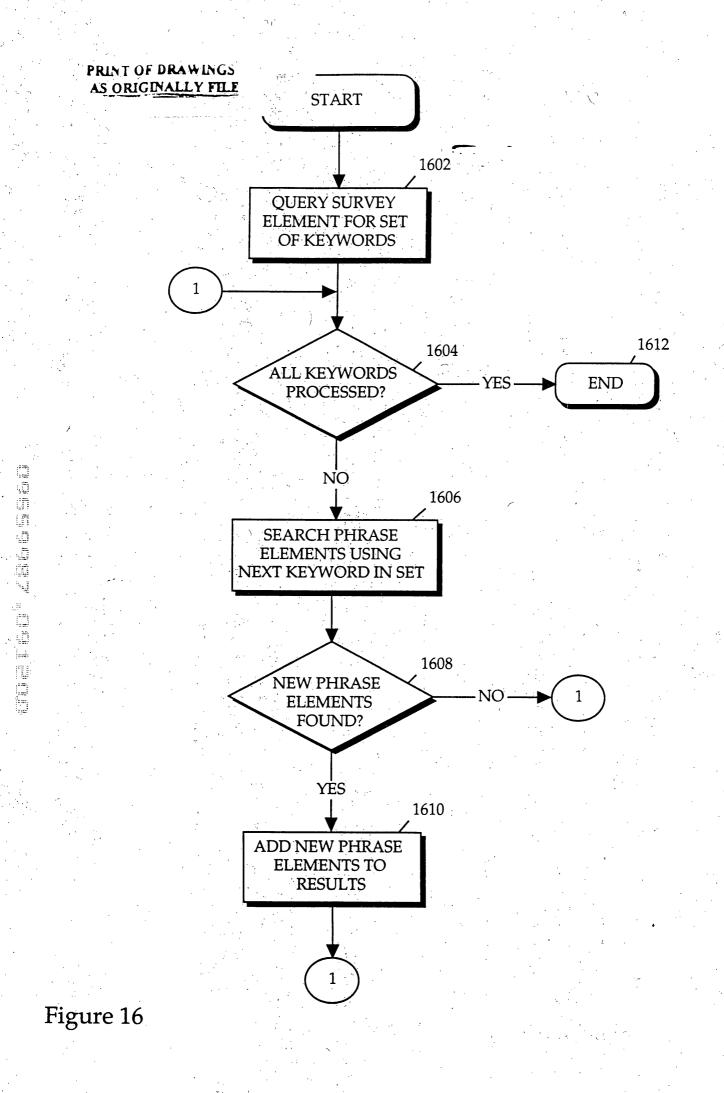
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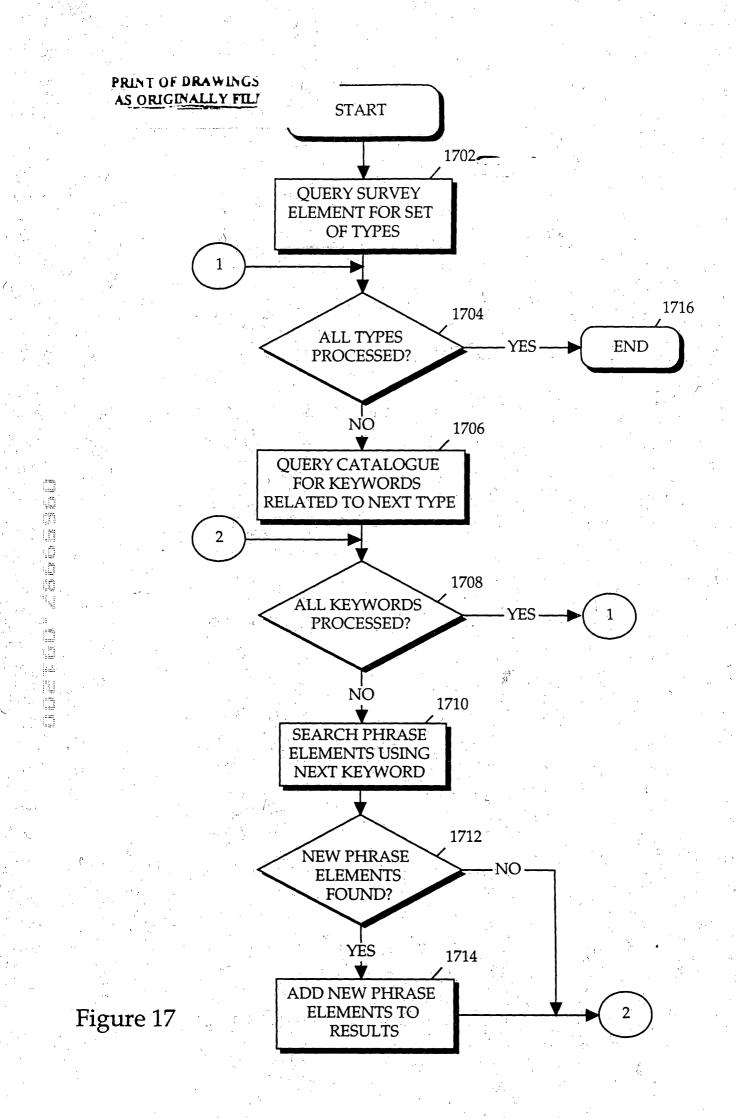
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MINDGEEK EXHIBIT 1004_

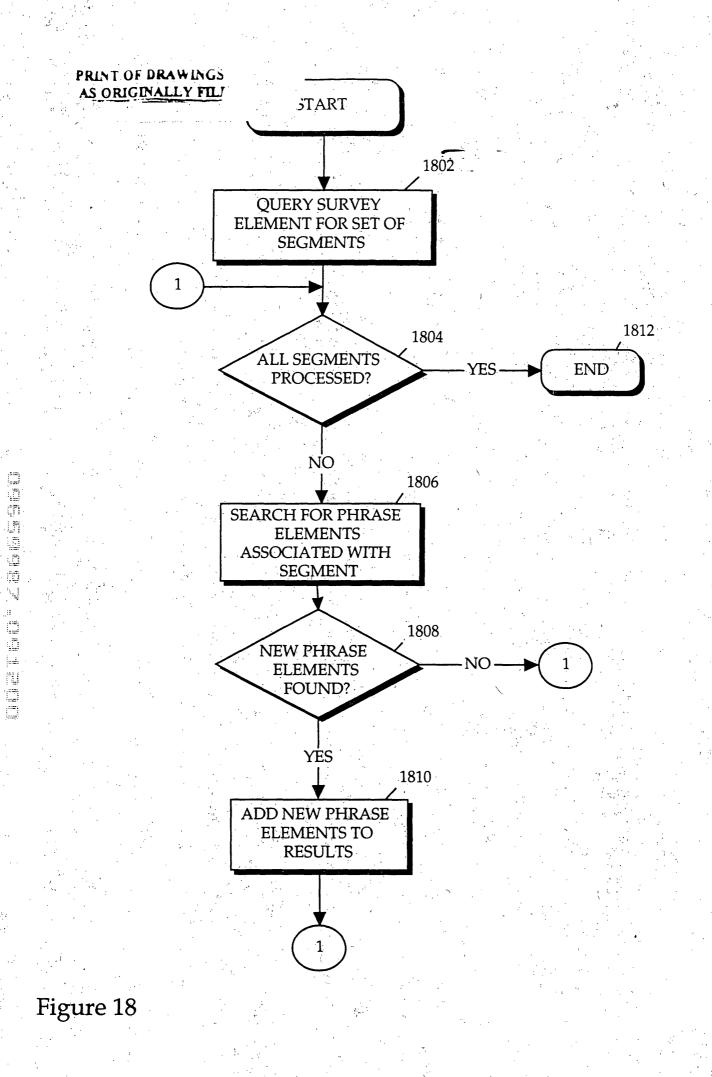
J 1 4 Mar



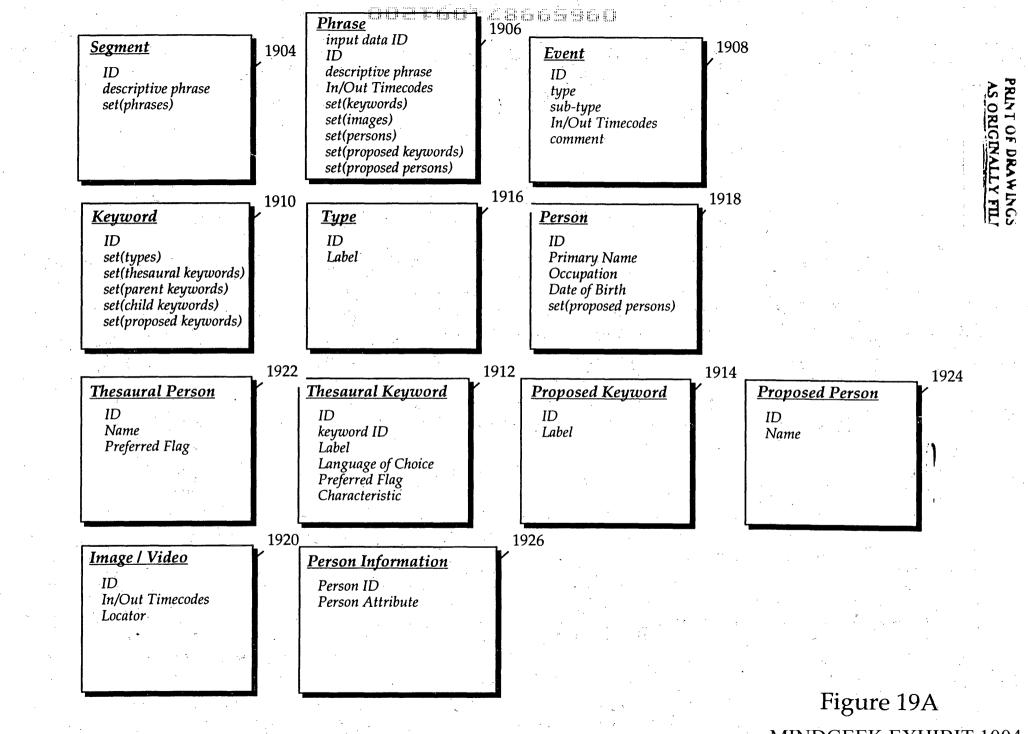
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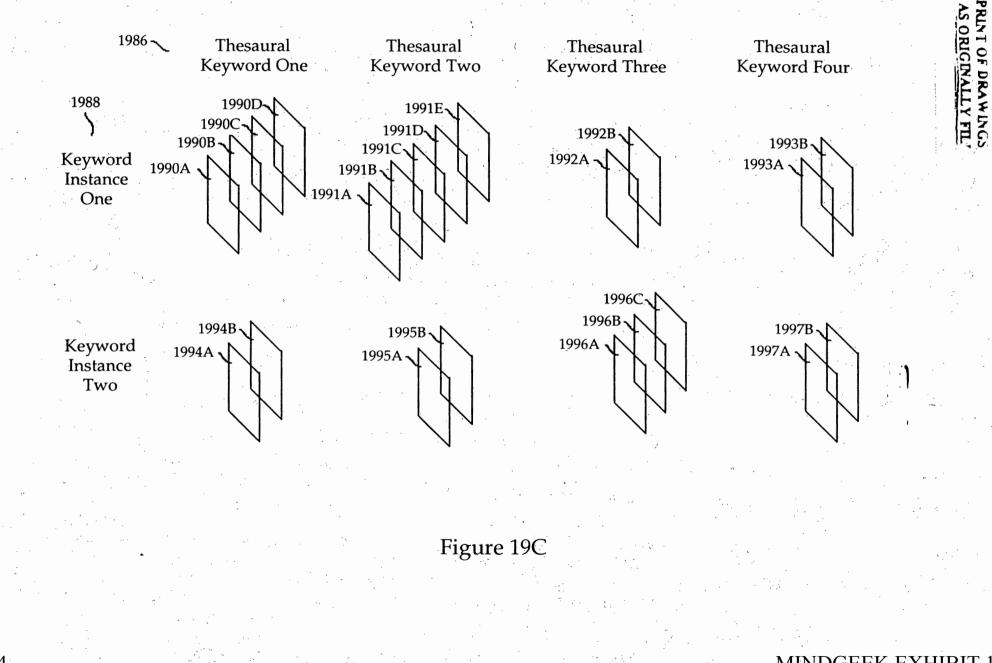


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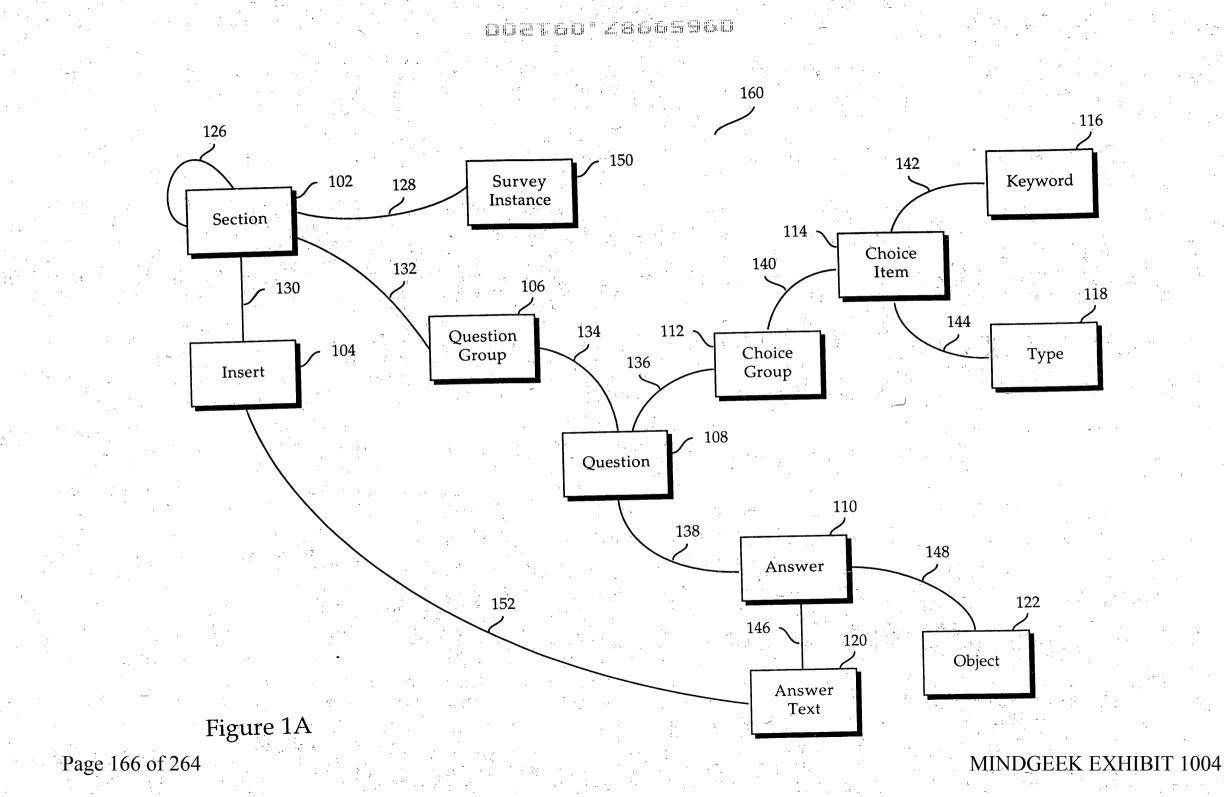


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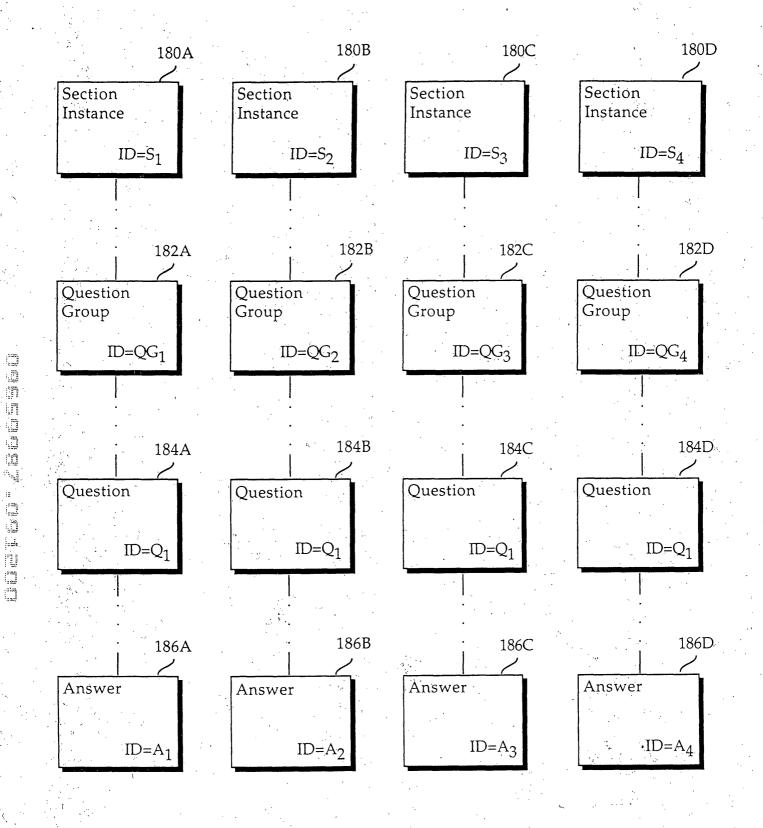
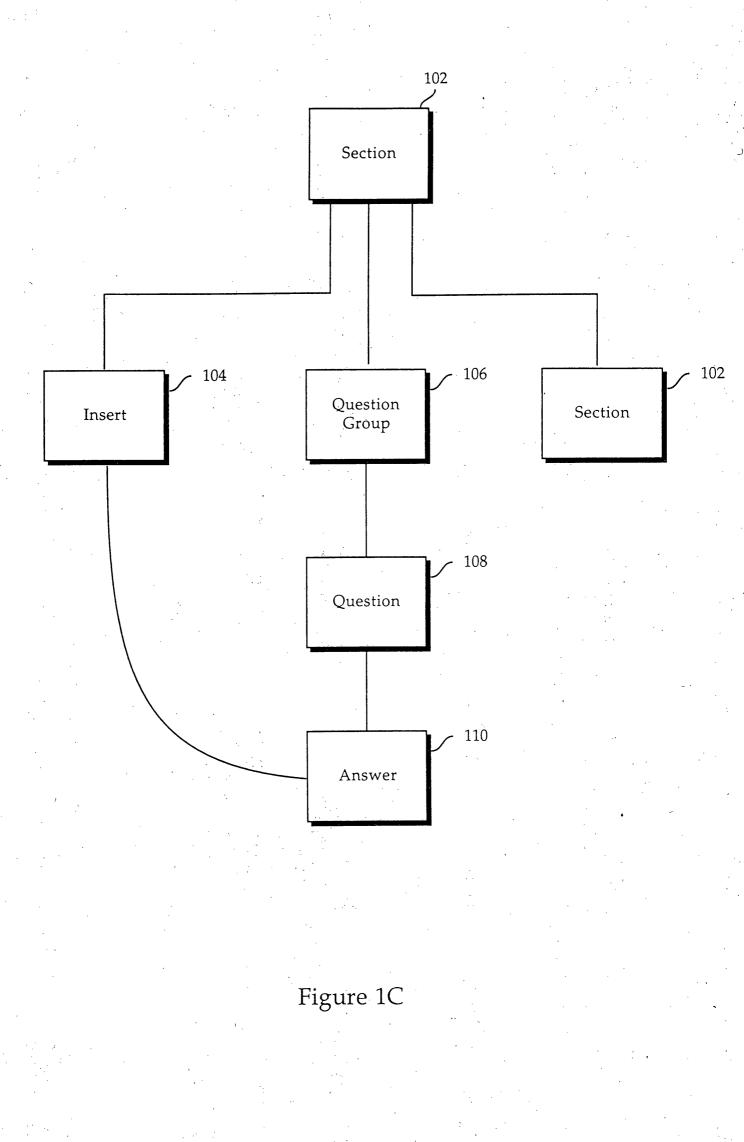
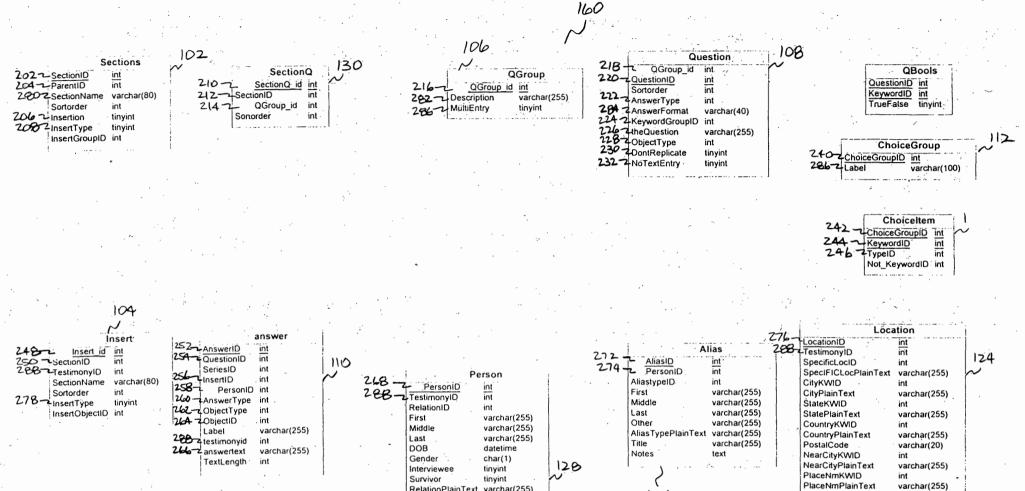


Figure 1B



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answertext 290 - Lanswerid int 292 - L'answertext text

120

varchar(255) RelationPlainText varchar(255) Notes DOBText varchar(255) NoteText text Title varchar(255)

HEURE 2

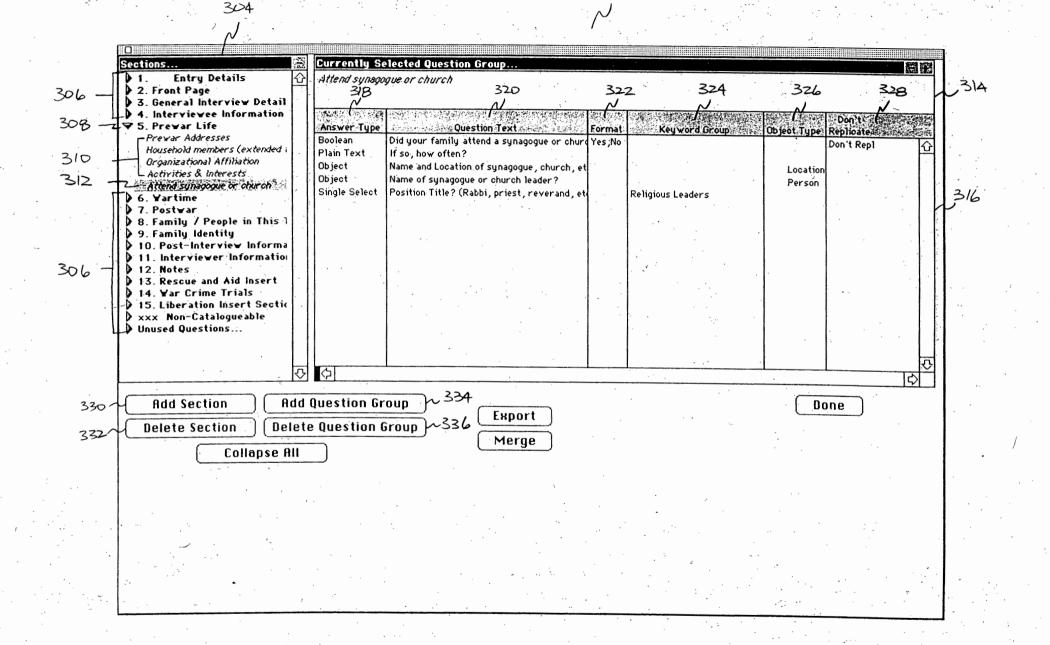
PlaceNmPlainText 126 LocationTypePlainText varchar(255) LocationType StreetAddress

int varchar(255)

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SECTION				
Parent Section				
Section Name				
412~	🔲 Insert	•	· · · ·	
Insert Type	·····	······		~~}/h
		ancel 🗍	Save	
			3000	

FIGURE 4A

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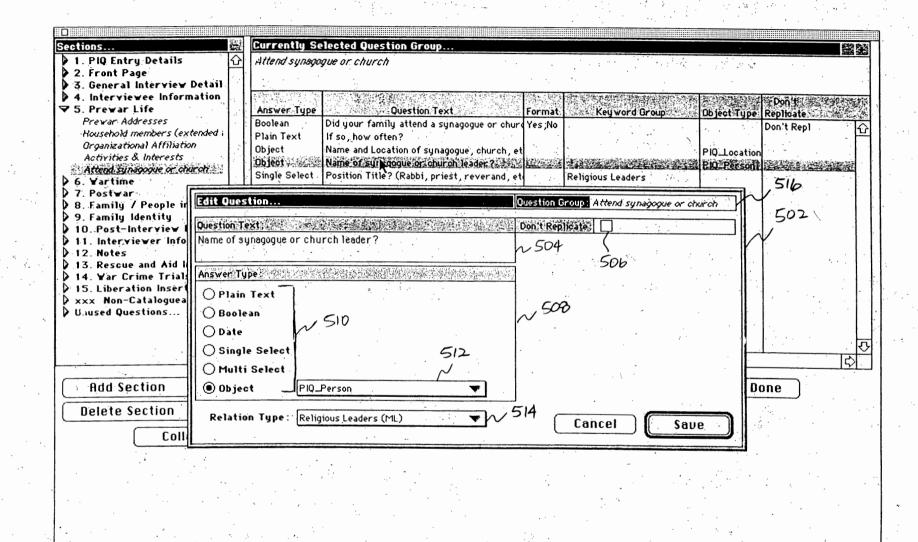
	2		<u></u>
ADD QUESTION GROU	P		42
Parent Section [
Group Title			_n 44
430	Multi-Entry		475
	Cancel	Save	
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FIGURE 4B

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FIGURE 5

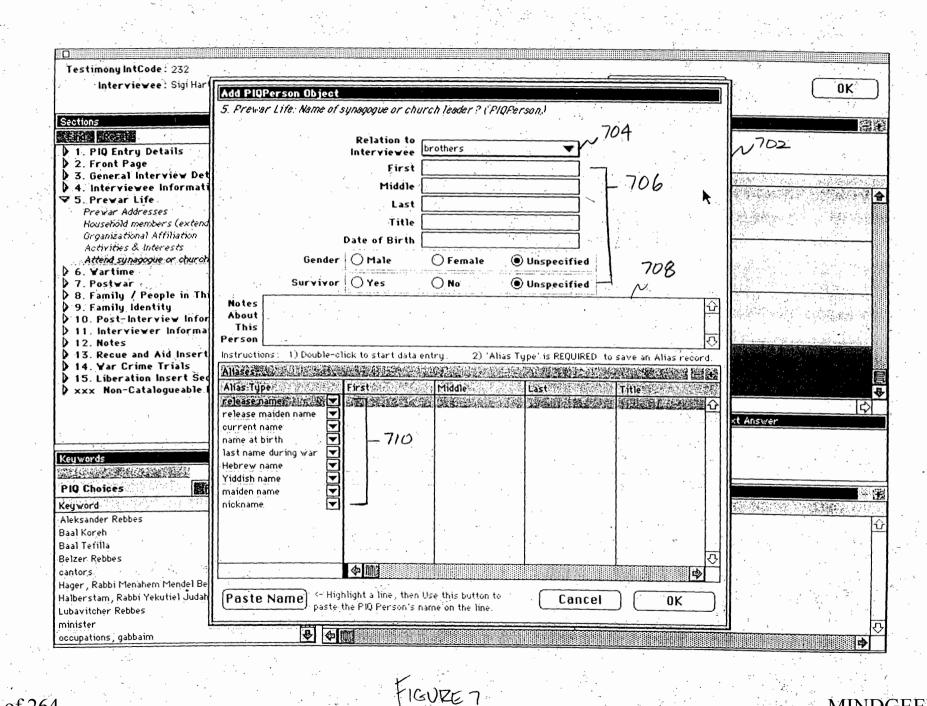
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Ë	Choice Groups	GCA Drag from Keyword Authority to Admin Choices
	ID Choice Group	
	18 Alias Types	When a Keyword is dragged, the Keyword will be added to both "Admin Choices" and "User View".
	19 Alias Types - Manditory 606	
	173 Arrived from? (ML)	When a Type is dragged, the Type is displayed in "Admin Choices" and the
	247 Attributes and Roles	current keywords of that Type are added to "User View".
-	242 Camps (cc. pow.intern)	
·	164 Camps (ML)	If an inappropriate keyword appears in "User View" from dragging a Type, it
- 1	163 Children (ML)	may be excluded by dragging it to the trash. This allows the user to create a
	238 Circumstances of release 2 Cities, towns, villages, shtetls	list of exceptions to a desired Type
- :		
· .	() [)	
· ·]		
	User view: 6/0 Admin choices:	64 Keyword Authority 616
1	Item Source Choice	イン Source / Maintain Maintai
-2	(PIQ) post-hiberation cont campst Tupe 1 1	
	Jasenovac (Yugoslavia : Camp) Type 📰 NOT (z)Brauweiler (German	y: Camp Type
	camps in Yugoslavia (CONTAINER ONL Type NOT (z)Breitenau (1933-193	
	prisoner of war camps Type NUT (z)Breslau-Dürrgoy (Ge	rmany : Type > academic life (CONTAINER ON Miscellaneous 🔂
	Stalag IV G, Oschatz (Germany : POw Type NOT (z)Bürgermoor (German	
ľ	Kulmhof (Poland : Camp) Type NOT (z)Chemnitz (Germany :	
	Sobibor (Poland : Camp) Type NOT (z)Colditz (1933-1934) Auschwitz II-Birkenau (Poland : Camp Type NOT (z)Columbia-Haus (Gern	
	Treblinka II (Poland : Camp) Type NOT (z)Dresden-Trachenber	
	Belzec II (Poland : Camp) Type NOT (z)Gollnow (Germany : C	
	SS mobile construction brigades KW NOT (z)Hammerstein (Germa	
	concentration camps, Slovak Type NOT (z)Heuberg (Germany : C	Camp) Type
	Balf (Hungary Camp) Type NOT (z)Hohnstein (Germany	Camp) Type
	Csepel (Hungary : Camp). Type NOT (z)Langlütjen (Germany	Lamp) type (iii)
	Hajduhadhaz (Hungary : Camp) Type NOT (z)Lichtenburg (German	y: Camp Type > incarceration (CONTAINER OI Miscellaneous
1	Koeszeg (Hungary : Camp) Type 🔮 NOT (z)Ochtumsand (German	y: Cam; Type
	10	
	618	
ŀ		Cancel
		Cancel Save
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FIGURE 6

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Testimony IntCode: 232		
Interviewee: Sigi Hart		Spreadsheet OK
	n de la companya de l	
ections Collapse All	Selected Question Group	
	Name of Interviewee	Ē
1. PIQ Entry Details		
2. Front Page		
Survivor Release Enclosed	Question	
3. General Interview Details	AIS	wer t
Name of Interviewee	Edit Alias to PIQPerson	
Date of Pre-Interview & Interview	3. General Interview Details: Release Name of interviewee	802
Inty Location & Home Addr	(as appears on Release Form) (PIQAlias)	WEGE
4. Interviewee Information	as appears on Release For In. (Fild41185.)	
7 5. Prewar Life		
Prevar Addresses Household members (extended family& other	Alias for : Sigi Hart 🔹 🐨 🗸	
Organizational Affiliation	First Sigi	
Activities & Interests		
Attend sunagogue or church	Middle	
6. ¥artime	Last Hart	
7. Postwar	Title	
8. Family / People in This Testimony	808	5
9. Family Identity	Alias Type release name	
10. Post-Interview Information	Notes About	
11. Interviewer Information	This Alias	
→ 12. Notes → 13. Recue and Aid Insert (name) →	810	
14. Yar Crime Trials		16
15. Liberation Insert Section		Plain Text Answer
xxx Non-Catalogueable PIQ Questions		
eywords		
	NOTE : 'Alias Type' is REQUIRED in order to save the record.	
IQ Choices		
yword ?	Paste Name Cancel OK	Participation of the second
leksander Rebbes	I Proprey Sont Intends (, Simon,	
al Koreh	PloPerson friends [Diamond], M	
al Tefilla	PIQPerson sisters-in-law [Vogel], Miche	
Izer Rebbes	PIQPerson aunts [¥ulkan], Freid	
intors	PIQPerson grandfathers Begleiter, ,	
ager , Rabbi Menahem Mendel Ben Hayyim	PIQPerson grandmothers Begleiter,	and the second
alberstam, Rabbi Yekutiel Judah	PIQPersonauntsBegleiter, Ade	and the second
bavitcher Rebbes	PIQPerson uncles Begleiter, Bar	
inister	PIQPerson uncles Begleiter, Isak	
ccupations, gabbairn	lorgicker, Isak	

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FIGURE 8

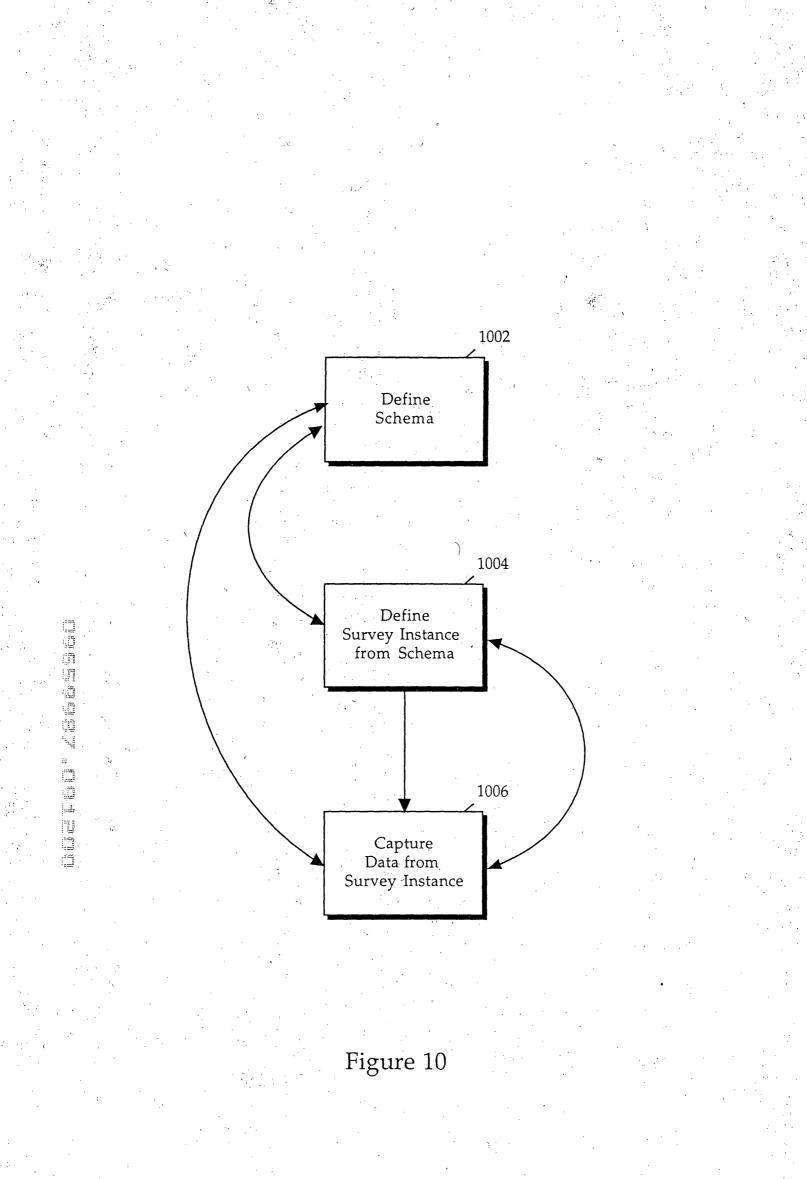


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	<u>q</u>		<u>, , , , , , , , , , , , , , , , , , , </u>
stimony IntCode : 232	~902	(teadsbeard	
Edit Location Object		Keyvords	
5. Prewar Life: Name and Location of synagogue, church, etc. (1	FIOLocation.		
		PIQ Choices	
Type of Location synagogues	- 906 91Z	Keyword	2017 -
·		Click a box to fill in this list. Then drag a keyword	1. 압
Emd-E to Search N	<u>Click to select</u> , N <u>Drag a Keyword</u> , 904-2		
Place Name (Camp, Heidereyter Shul			
School, Ghetto, etc.)	4		
Street Address			
3	914		
Çity/To¥n/Village	Berlin (Germany)		
/Shtetle	Berlin (Germany)		
Nearest Large City			
		L	ひ
State/Province		Proposed Keywords	
		Proposed Key word	
Country	Germany		
	·		
Postal Code			
Specific Location Heidereyter Gasse			
908			
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FIGURE 9



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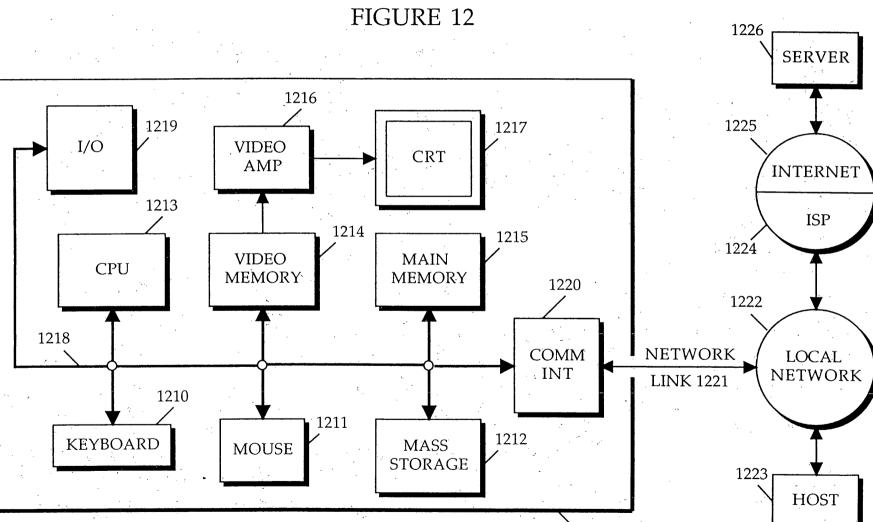
Testimony IntCode : 232 Interviewee : Sigi Hart		Spreadshee	et
Sections (Collapse: All)	Selected Question Group Attend synagogue or church		
	Allend Synegogie or church III	0 1118	1120
 Entry Details Front Page 	뇌 ~	N	1120
3. General Interview Details	Questión	Answer 1	<u></u>
-D 4. Interviewee Information	Did your family attend a synagogue or	r Yes	
▼ 5. Prevar Life ¬Prevar Addresses	church prior to the war? (Yes, No)		
Household members (extended family& other		1130A	
Organizational Affiliation 1112	If so, how often? (Plain Text)		
Activities & Interests		~ 1130 B	
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0.7. Postwar			
 8. Family / People in This Testimony 9. Family Identity 	Name and Location of synagogue, chur etc. (PIQLocation)		
9. Family identity 0 10. Post-Interview Information		Berlin (Germäny) / Germany / Heidereyter Gasse	
11. Interviewer Information			
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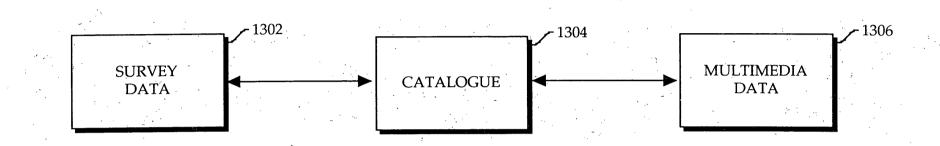
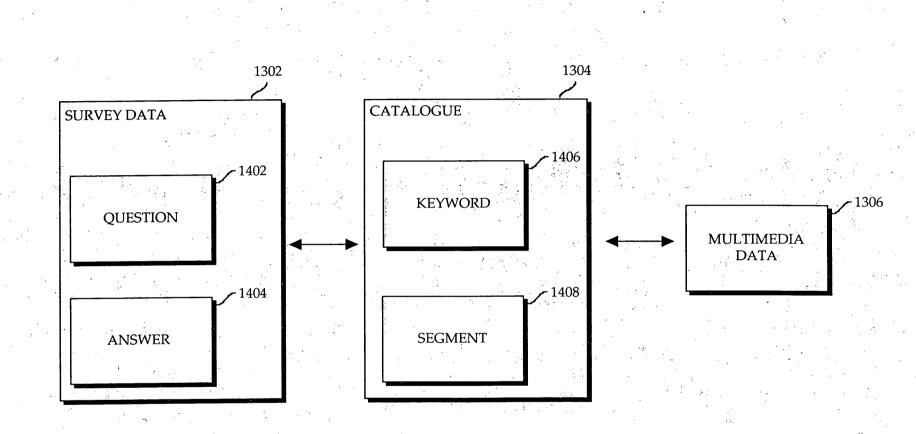


Figure 13

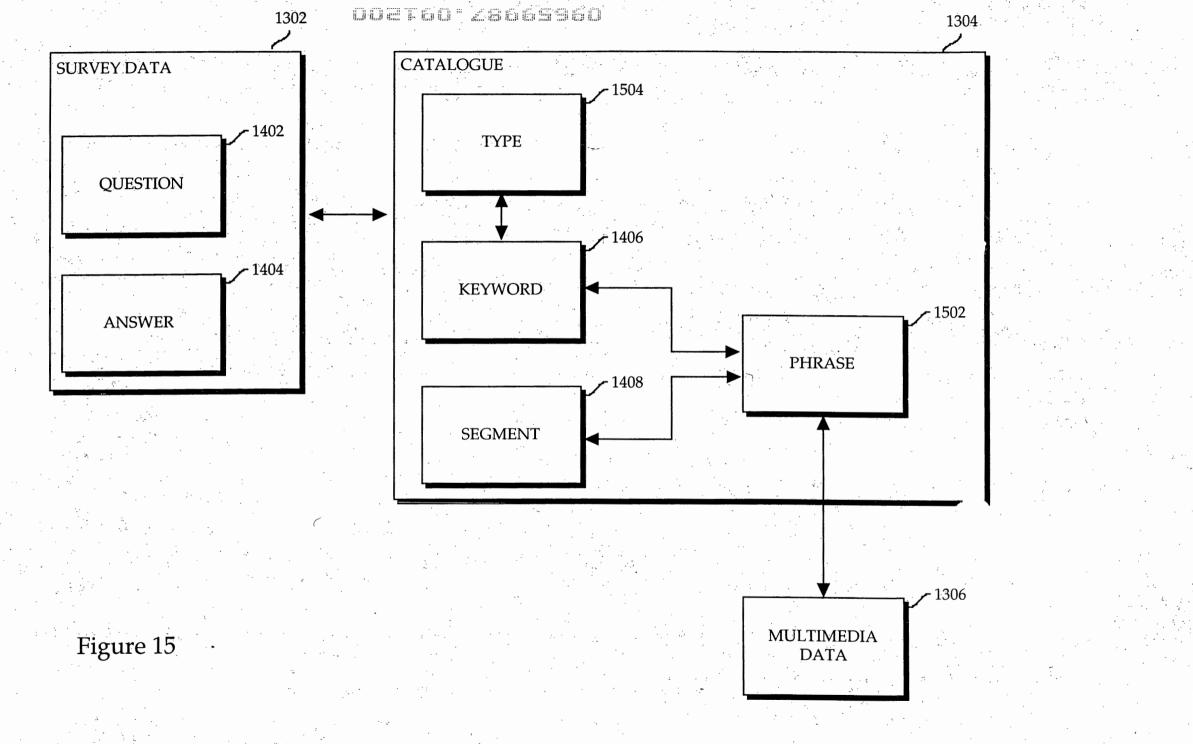
Page 181 of 264



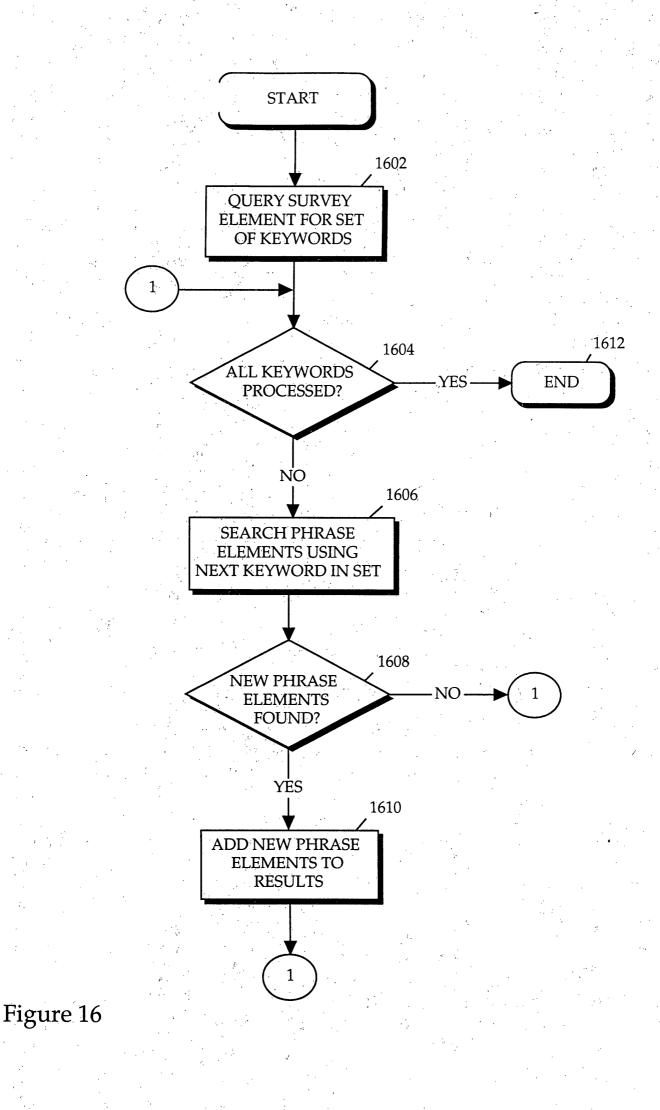
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Figure 14

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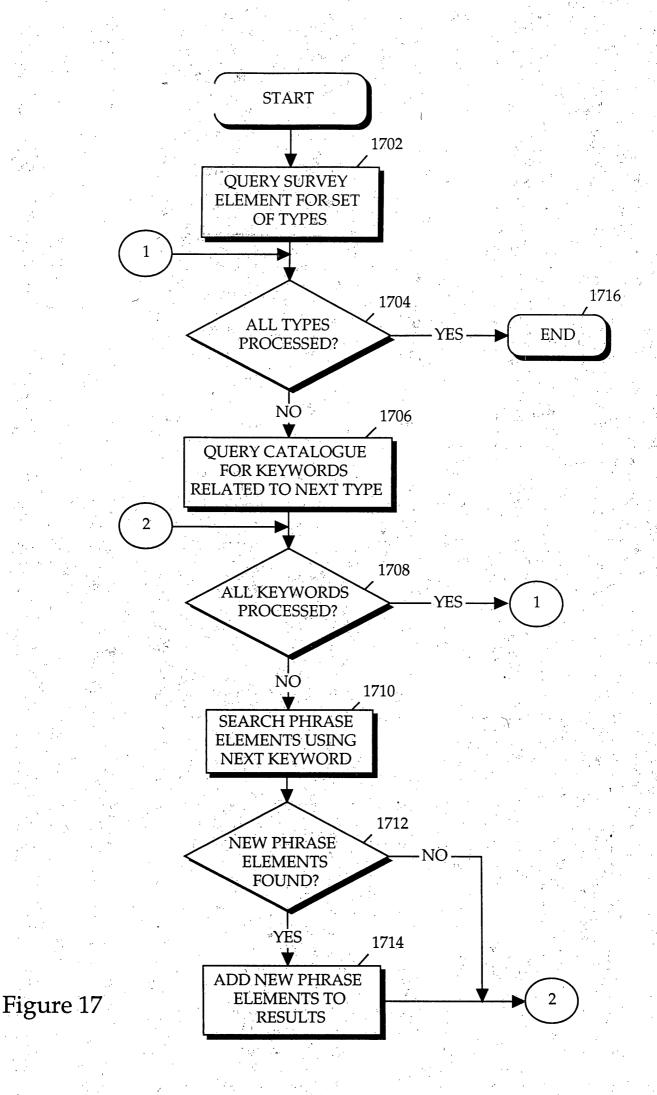


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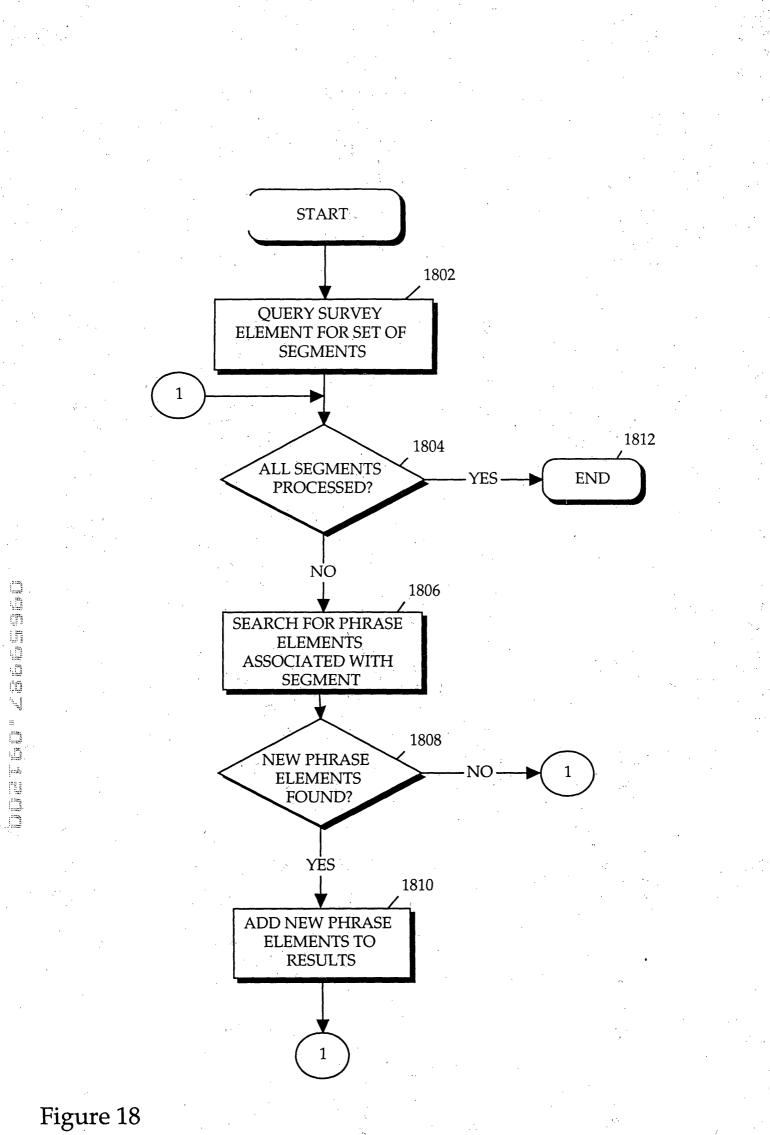


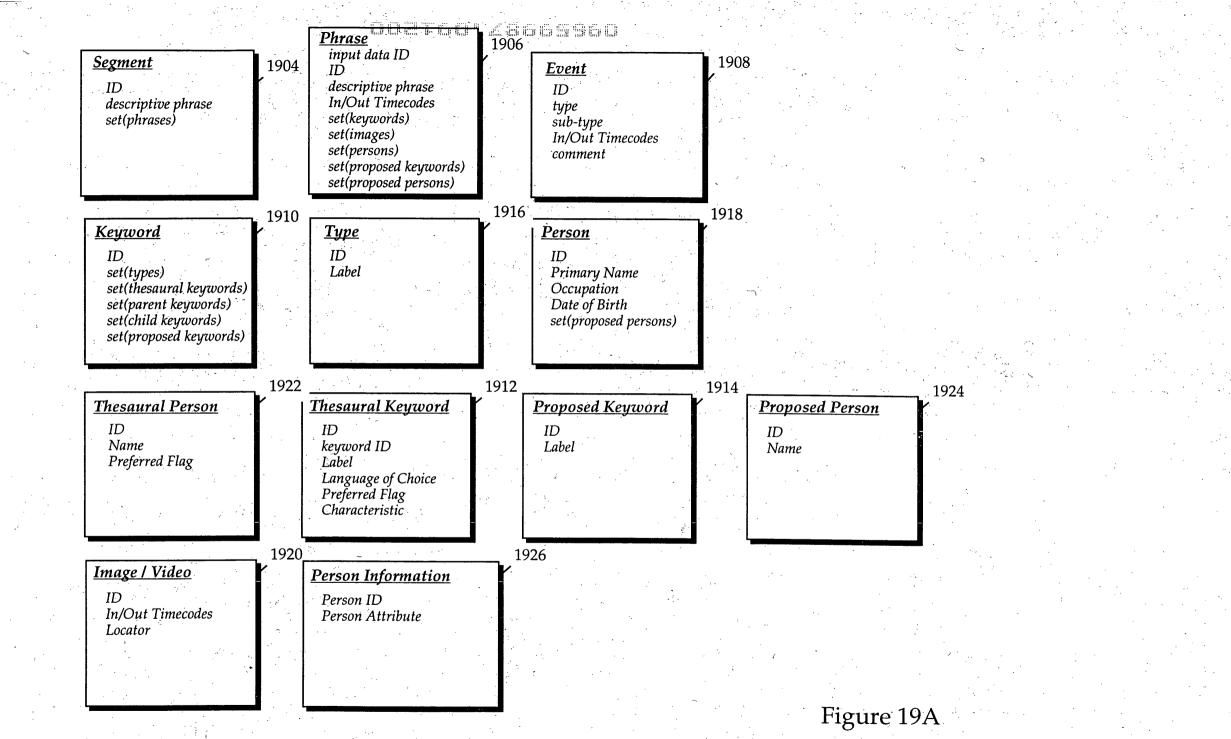
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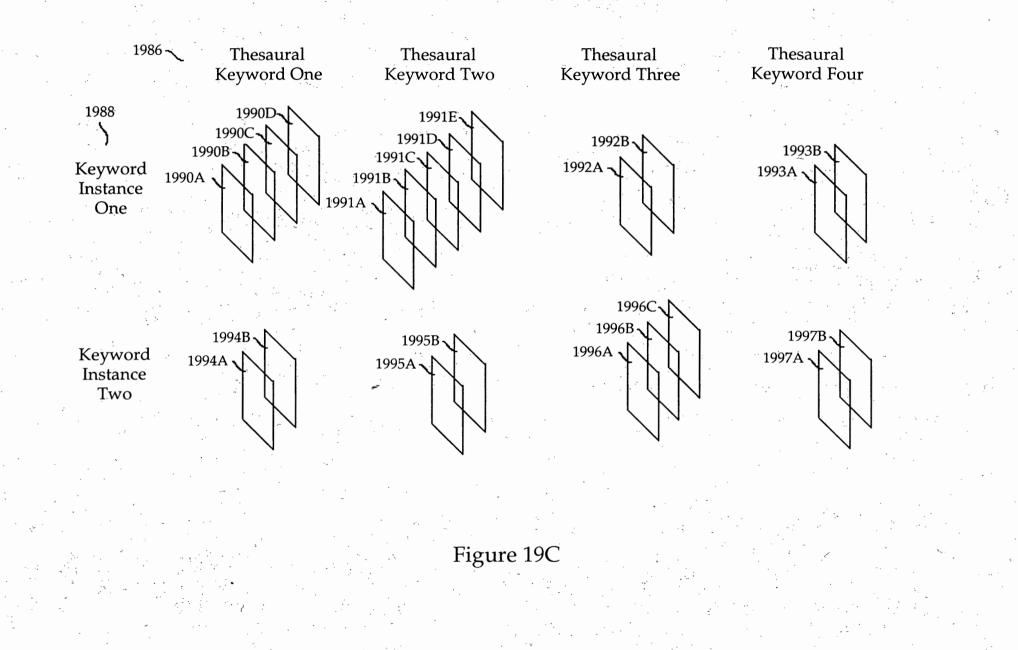
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/659,987	09/12/2000	Samuel Gustman	84300.916

Gary A Hecker Suite 2300 1925 Century Park East Los Angeles, CA 90067

Date Mailed: 11/06/2000

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
- Applicant must submit **\$ 690** to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).
- Total additional claim fee(s) for this application is \$108.
 - \$108 for 6 total claims over 20.
- The oath or declaration is missing.
 A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 928.

A copy of this notice <u>MUST</u> be returned with the reply.

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ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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FILE LOCATION 03C0 SERIAL NUMBER 09659987 PATENT NUMBER THE CORRESPONDENCE ADDRESS HAS BEEN CHANGED TO CUSTOMER # 22804 THE PRACTITIONERS OF RECORD HAVE BEEN CHANGED TO CUSTOMER # 22804 THE FEE ADDRESS HAS BEEN CHANGED TO CUSTOMER # 22804 ON 04/24/01 THE ADDRESS OF RECORD FOR CUSTOMER NUMBER 22804 IS:

> THE HECKER LAW GROUP 1925 CENTURY PARK EAST SUITE 2300 LOS ANGELES CA 90067

AND THE PRACTITIONERS OF RECORD FOR CUSTOMER NUMBER 22804 ARE: 31023 45677 45907 47475

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FEE TRANSMITTAL	Application Number	09/659,987	Ŧ.
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for FY 2001	First Named Inventor	SAMUEL GUSTMAN	
Patent fees are subject to annual revision.	Examiner Name	UNASSIGNED	
	Group Art Unit	2171	
TOTAL AMOUNT OF PAYMENT (\$) 1,459.00	Attorney Docket No.	84300.916	
METHOD OF PAYMENT	FEE CA	LCULATION (continued)	
The Commissioner is hereby authorized to charge	3. ADDITIONAL FEES		
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nature.	(Attorney/Agent) 31,023	Date June 5, 200	lö
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Application Assignment Record

According to the application transmittal letter, an assignment recording ownership was filed with this application; however, a copy of this record was not located in the original file history record obtained from the United States Patent and Trademark Office. Upon your request, we will attempt to obtain the assignment documents from the Assignment Recordation Branch of of the United States Patent and Trademark Office or from a related application case (if applicable). Please note that additional charges will apply for this service.

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Our Ref.: 84300.916

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As below named inventors, We hereby declare that:

Our residence, post office addresses and citizenship are as stated below, next to our names,

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA

the specification of which

XXX

is attached hereto.		
was filed on Septem	ber 12, 2000	as
Application Serial No	. 09/659,987	
and was amended or		
	(if applicable)	

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. We do not know and do not believe that the same was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

We hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Appli	cation(s)			ority limed
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

-1 of 3-DECLARATION OF POWER OF ATTORNEY

Our Ref.: 84300.916

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, We acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status patented, pending, abandoned)

We hereby appoint THE HECKER LAW GROUP, a firm including: Gary A. Hecker, Reg. No. 31,023; Angelo Gaz, Reg. No. 45,907; Obi Iloputaife, Reg. No. 45677, with offices located at 1925 Century Park East, Suite 2300, Los Angeles, California 90067, telephone (310) 286-0377, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor SamuebGustman

Page 196 of 264

Inventor's Signature	Date_ C172 361
Residence Santa Monica CA	Citizenship S
(City, State)	(Country)
Post Office Address PO Box 3 68	
COS Argelos CA	40078-3165

-2 of 3-DECLARATION OF POWER OF ATTORNEY

Our Ref.: 84300.916

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	•	Application Number	09/659,987
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Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents; Washington, DC 20231.

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MINDGEEK EXHIBIT 1004

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PTO/SB/08A (10-01) Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. BADEMAR Complete if Known Substitute for form 1449A/PTO 09/659,987 Application Number **INFORMATION DISCLOSURE** Filing Date <u>September 12, 2000</u> **STATEMENT BY APPLICANT** First Named Inventor Samuel GUSTMAN 2171 Unassigned Art Unit (use as many sheets as necessary) mizich Examiner Name Sheet 3 Attorney Docket Number 84300.916 3 of U.S. PATENT DOCUMENTS Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear Publication Date MM-DD-YYYY Name of Patentee or Applicant of Cited Document Cite No. Examin er - Kind Code² (if i DW 7/15/97 ANTONOGINI ET AL. US- 5,649,185 US-5,649,186 7/15/97 FERGUSON US-5,682,330 10/28/97 SEAMAN, ET AL US-5,724,605 3/3/98 WISSNER us- 5,813,014 9/22/98 **GUSTMAN** US-5,832,495 11/3/98 GUSTMAN US-5,832,499 11/3/98 **GUSTMAN** US-5,867,709 2/2/99 LANG, ET AL. us-6,092,080 7/18/00 GUSTMAN ÜS-6,199,060 3/6/01 GUSTMAN RECEIVED 3/5/02 us-6,353,831 GUSTMAN ÚS-APR 1 2 2002 US-US Technology Center 2100 US-US-US-ับร-US-US FOREIGN PATENT DOCUMENTS Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear Name of Patentee or Applicant of Cited Docum Examiner Initials Cite No. ation Date MM-DD-YYYY Examiner Date , 9 Diane Mirrah 7 07 Signature *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/659,987	09/12/2000	Samuel Gustman	84300.916	6340		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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Application/Control Number: 09/659,987

Art Unit: 2175

1.

III. DETAILED ACTION

Claims 1-26 are presented for examination.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321[©] may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-26 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-18 of U.S. Patent No.6,212,527 B!.

Although the conflicting claims are not identical, they are

not patentably distinct from each other because they are substantially similar in scope and they use the same limitations, using varying terminology.

Page 204 of 264

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Page 2

Application/Control Number: 09/659,987

Art Unit: 2175

<u>Points of Contact</u>

4. Any inquiry concerning this communications from the examiner should be directed to Diane Mizrahi whose telephone number is (703) 305-3806. The examiner can normally be reached on Monday to Thursday from 7:30 AM. to 5:00 PM.

If any attempt to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (703) 305-3830.

Any response to this office action should be mailed to The Commissioner of Patents and Trademarks, Washington, D.C. 20231 or telefaxed at our phone number (703)746-5612.

For formal or draft communications, please label "PROPOSED" or "DRAFT". Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, 4th Floor Receptionist, Arlington, Virginia.

ane Mizrahi

Primary Patent Examiner Technology Center 2100 September 8, 2002

MINDGEEK EXHIBIT 1004

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Notice of References Cited

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	SUBMITTED BY		191	Complete (f applicable)		<u>,</u>
		Registration No.	31,023	Telephone	(310) 286-0	377	1
	Name (Print/Type) Gary A. Heeker	(Attorney/Agent)	51,020		(010) 200 0		_

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

SAMUEL GUSTMAN

Serial No. 09/659,987

Filed: September 12, 2000

For: METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA Examiner: DIANE D. MIZRAHI Group Art Unit: 2175

AMENDMENT AND RESPONSE

Assistant Commissioner for Patents Washington, D. C. 20231

Dear Sir:

This is in response to the outstanding Examiner's Action dated September 11, 2002 (paper number 6). Please consider the following remarks.

1

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REMARKS

Claims 1-26 are pending in the present patent application. The Examiner has rejected claims 1-26.

Double Patenting

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The Examiner has rejected claims 1-26 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over the claims of U.S. Patent No. 6,212,527 B1. The Examiner states:

1. The non-statutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73 (b).

2. Claims 1-26 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-18 of U.S. Patent No. 6,212,527 B1.

Although the conflicting claims are not identical, they are not patentably distinct from each other because they are substantially similar in scope and they use the same limitations, using varying terminology.

2

With this response, Applicant encloses a terminal disclaimer in compliance with 37 CFR §321(c) to overcome the Examiner's double patenting rejection.

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Page 210 of 264

CONCLUSION

Applicant respectfully submits that claims 1-26 are allowable and therefore respectfully requests that pending claims 1-26 be placed in condition for allowance.

3

B

Respectfully submitted, THE HECKER LAW GROUP

Gary A. Hecker Reg. No. 31,023

Date: December 6, 2002

THE HECKER LAW GROUP 1925 Century Park East Suite 2300 Los Angeles, California 90067 (310) 286-0377

CERTIFICATE OF MAILING

This is to certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on December 6, 2002.

12-6-02. an Signature: Deanna Blizzard Date: December 6, 2002

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PTO/SB/26 (10-00) Approved for use 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE a collection of information unless it displays a valid OMB control number

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information	n unless it	displays a valid OMB control number
TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING	÷.	Docket Number (Optional)
REJECTION OVER A PRIOR PATENT	4 .	84300.916

In re Application of: Samuel Gustman

Application No.: 09/659,987

Filed: September 12, 2000

For: Method and Apparatus for Cataloguing Multimedia Data Using Surveying Data

Survivors of the Shoah

The owner*, <u>Visual History Foundation</u>, of <u>100</u> percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. 154 to <u>156</u> and 173, as presently shortened by any terminal disclaimer, of prior Patent No. <u>6,212,527 B1</u>. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 to 156 and 173 of the prior patent, as presently shortened by any terminal disclaimer, in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

For submissions on behalf of an organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	The undersigned is	an attorney or	agent of record.

12/06/2002 Signature Date Gary A. Hecker

Typed or printed name

Terminal disclaimer fee under 37 CFR 1.20(d) included.

 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.
 *Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Aprication, Washington, DC 20231.

DEC 1 9 2002

MINDGEEK EXHIBIT 1004

Technology Center 2100

Transaction History Date 2002-12-27 Date information retrieved from USPTO Patent Application Information Retrieval (PAIR) system records at www.uspto.gov

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NOLICE OF AllOW BURLY Examiner At Unit DIANE D, MUZRAHI 2175 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address At claims being allowable, PROSECUTION ON THE MERITS IS (COR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of PATEINT ROH-THS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1313 and MPEP 1308. 1. The domunication is explored to withdrawal from issue at the initiative of the Office or upon petition by the application. See 37 CFR 1313 and MPEP 1308. 1. The domunication is associate to 21:16:22. 2. The drawing filed on 9:12:02 are accepted by the Examiner. 1. Cortified copies of the priority documents have been received in Application No. 1. Cortified copies of the priority documents have been received in Application No. 3. Copies of the cortified copies of the priority documents have been received in Application No. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). (a) The translation of the foreign priority under 35 U.S.C. § 119(e) (to a provisional application). (b) Cortified copies on treerevied: 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 12	· · · ·		A 11		09/659,987		GUSTMAN ET A	L.
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address- All claims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application. If notIncluded herewith (or previously mailed), a Notice of Allowance (PTOL-53) or other appropriate communication in the course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiativ of the Office or upon puttion by the applicant. See 37 CFR 1.313 and MPEP 1308. 1		Notice of	Allowability			÷	Art Unit	
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

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	09/659,987	09/12/	2000		Samuel G	ustman	· · · ·		84300.916		6340	

TITLE OF INVENTION: METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA

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THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY</u> <u>PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:	If the SMALL ENTITY is shown as NO:
A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.	A. Pay TOTAL FEE(S) DUE shown above, or
B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or	B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
	Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 4

PTOL-85 (REV. 04-02) Approved for use through 01/31/2004.

Page 214 of 264

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u> Box ISSUE FEE Commissioner for Patents Washington, D.C. 20231

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• •						(Date)		
APPLICATION NO.	FILING DATE	FI	RST NAMED INVI	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/659,987	09/12/2000		Samuel Gustm	an	84300.916	. 6340		
TITLE OF INVENTION: I	METHOD AND APPARAT	US FOR CATALOGI	ĮING MULTIME	DIA DATA USING	SURVEYING DATA			
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MIZRAHI,	DIANE D	2175	707-001	000				
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Page 215 of 264

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APPLICATION NO. FILIN	IG DATE	FIRST NAMED INVENTOR	•	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/659,987 09/1	12/2000	Samuel Gustman		84300.916	6340
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SUITE 2300				ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90067				2175	
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 298 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 298 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.

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Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. <u>See</u> Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

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Diane D. Mizrahi

MAR 3 1 2003

Atty. Docket No. 84300.916

2175

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:

Group Art Unit:

A TRADE te the Application of

GUSTMAN, Samuel

Serial No: 09/659,987

Filed: September 12, 2000

For: METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA....

SUBMITTAL OF FORMAL DRAWINGS

BOX ISSUE FEE (DRAWINGS) Commissioner for Patents Washington, D. C. 20231

Sir:

This is in response to the Notice of Allowance dated December 27, 2002. Applicant has enclosed the following:

1. Thirty Two (22) sheets of formal drawings;

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3. A return receipt postcard.

The Commissioner is hereby authorized to charge any fees associated with this communication to The Hecker Law Group Deposit Account No. 08-1520. A duplicate copy of this transmittal letter is enclosed for this purpose.

Respectfully submitted, тие ни KER/LAW_GROUP By: Gary A. Hecker

Date:__3-24-03

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Gary A. Hecker Reg. No. 31,023

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to the of the

Atty. Docket No. 84300.916

2175

Diane D. Mizrahi

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:

Group Art Unit:

In re the Application of

GUSTMAN, Samuel

Serial No: 09/659,987

Filed: September 12, 2000

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Respectfully submitted, THE HECKER LAW GROUP By:

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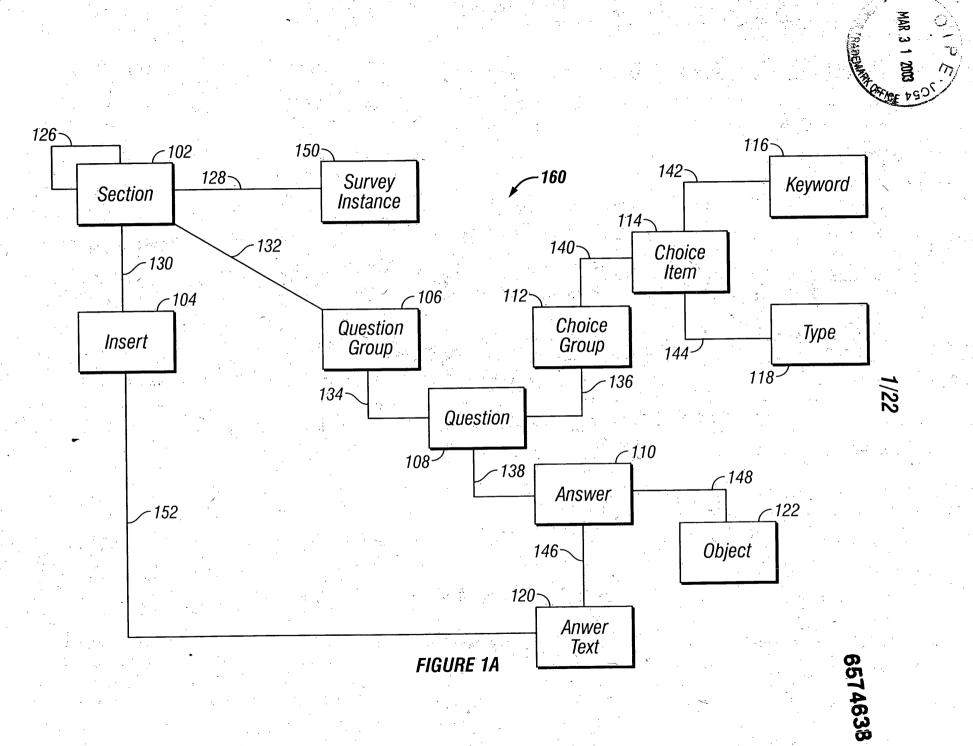
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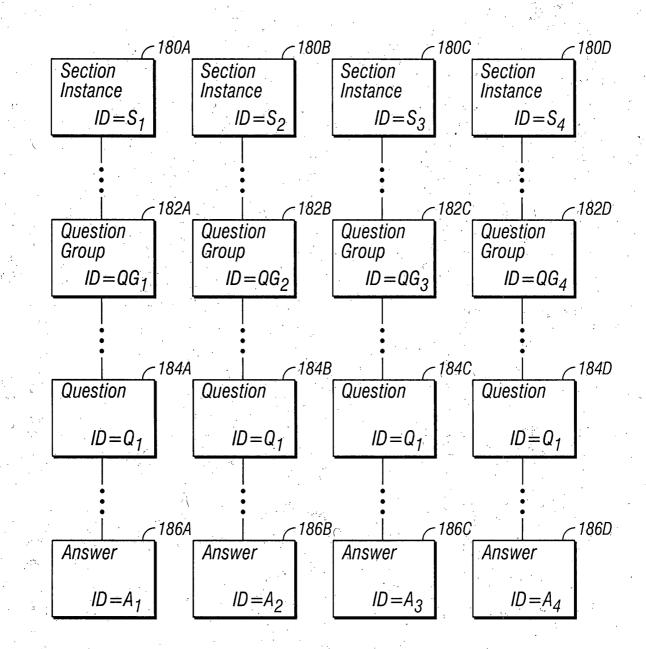
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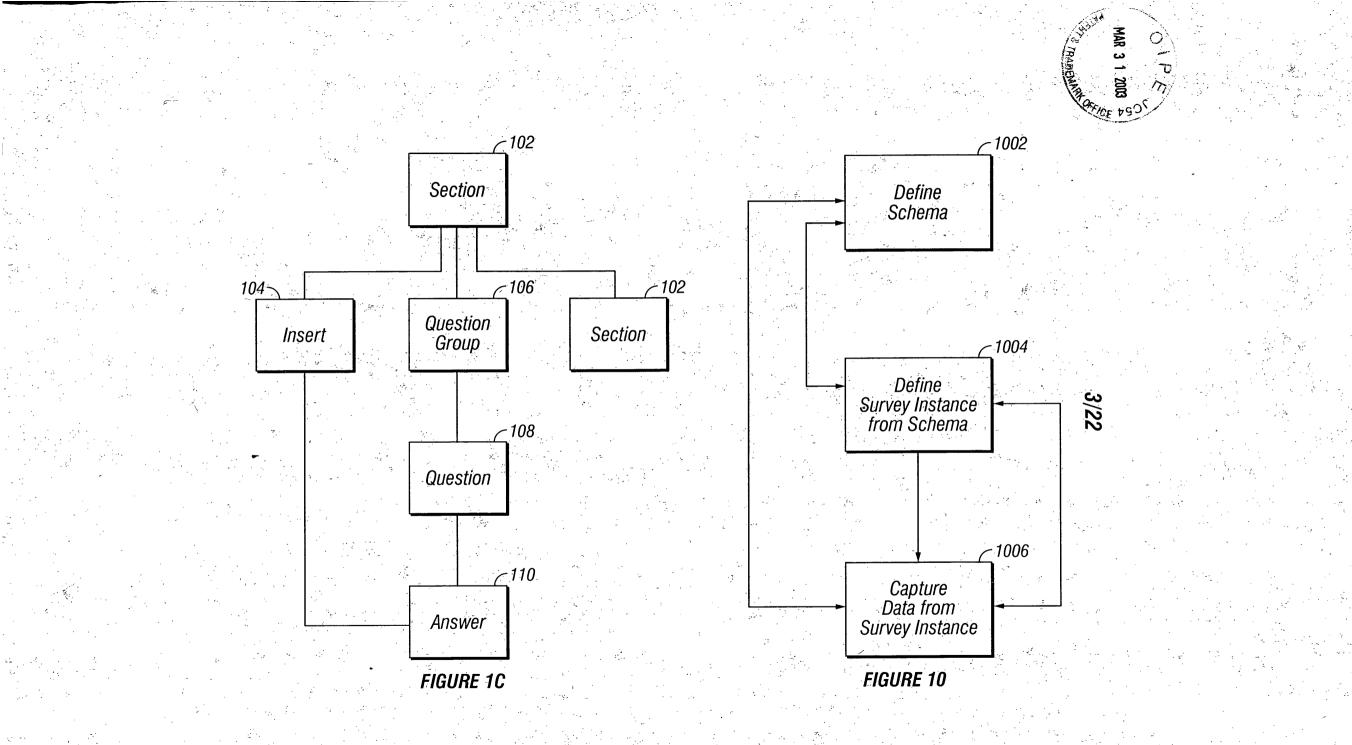


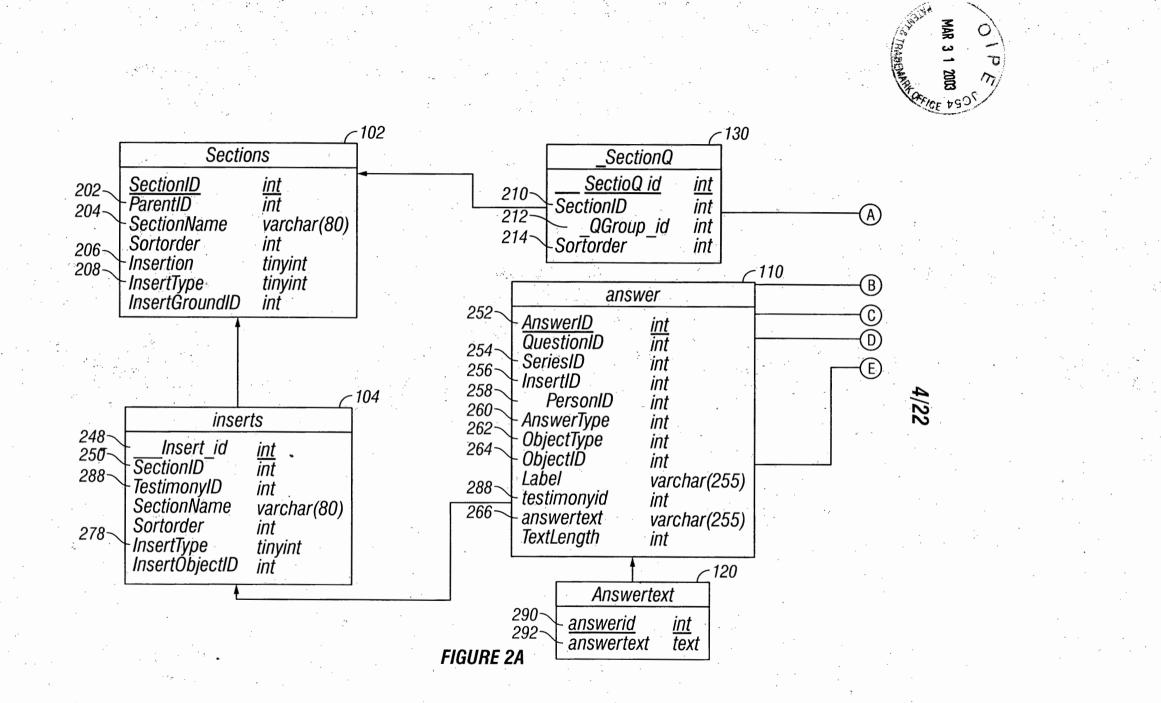
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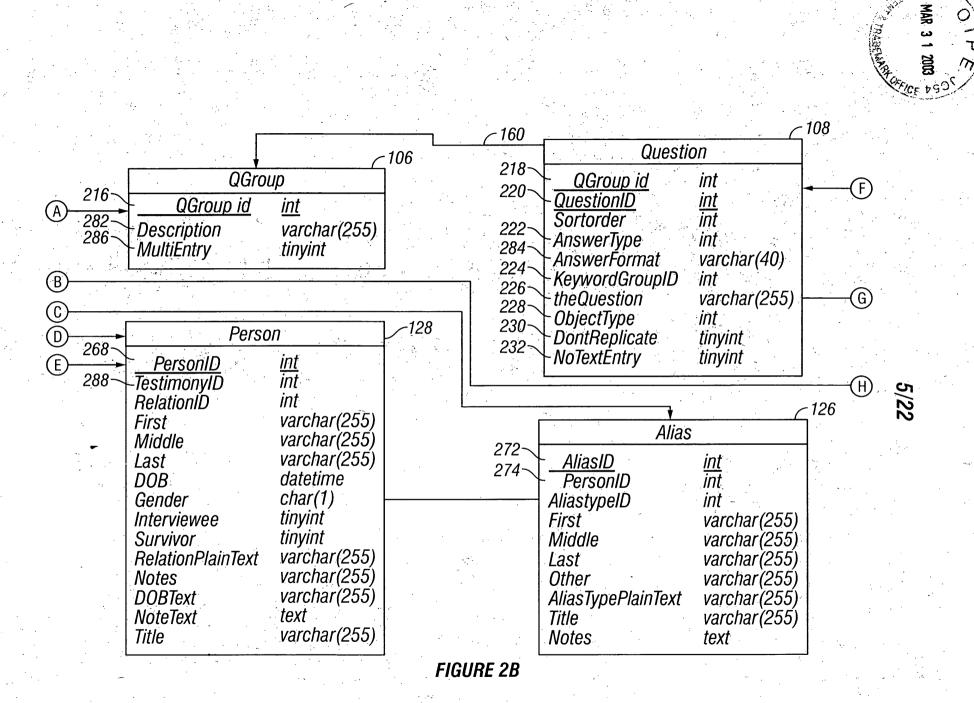
FIGURE 1B

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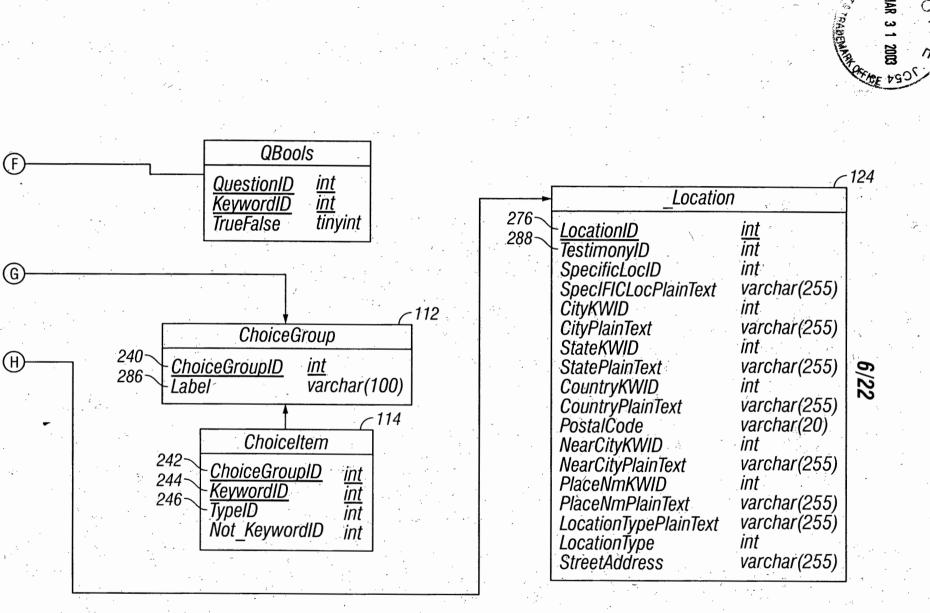


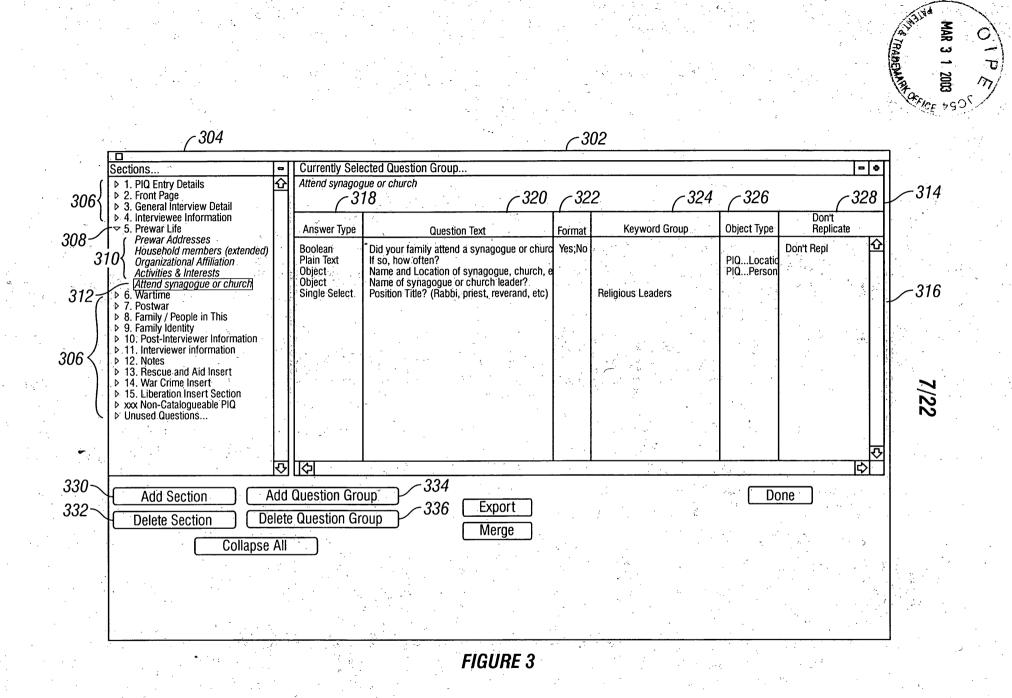
FIGURE 2C

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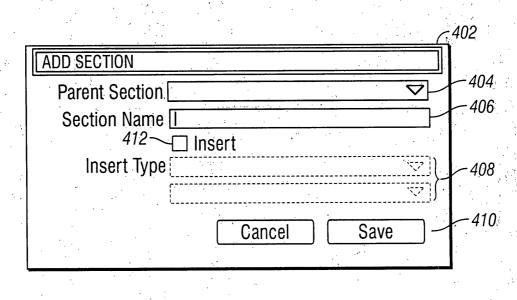
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FIGURE. 4A

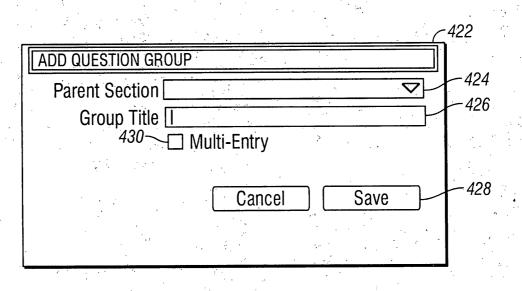


FIGURE 4B .

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FIGURE 5

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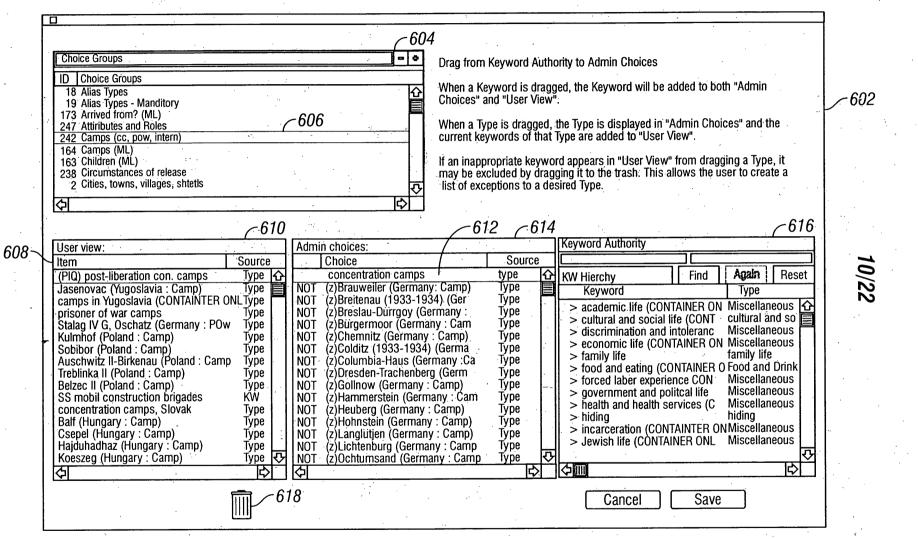
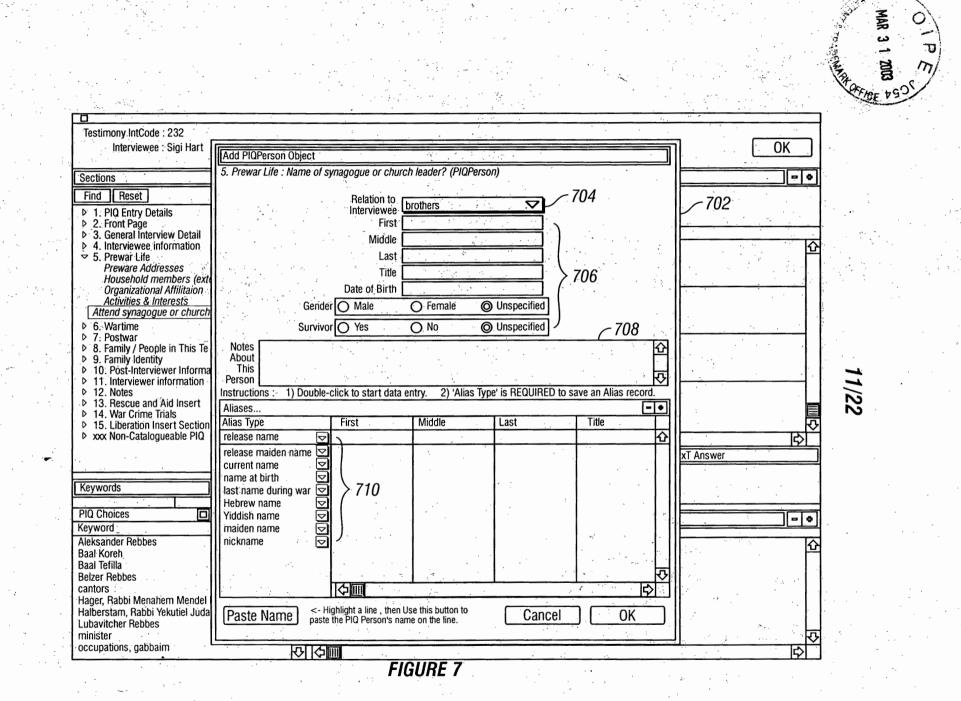


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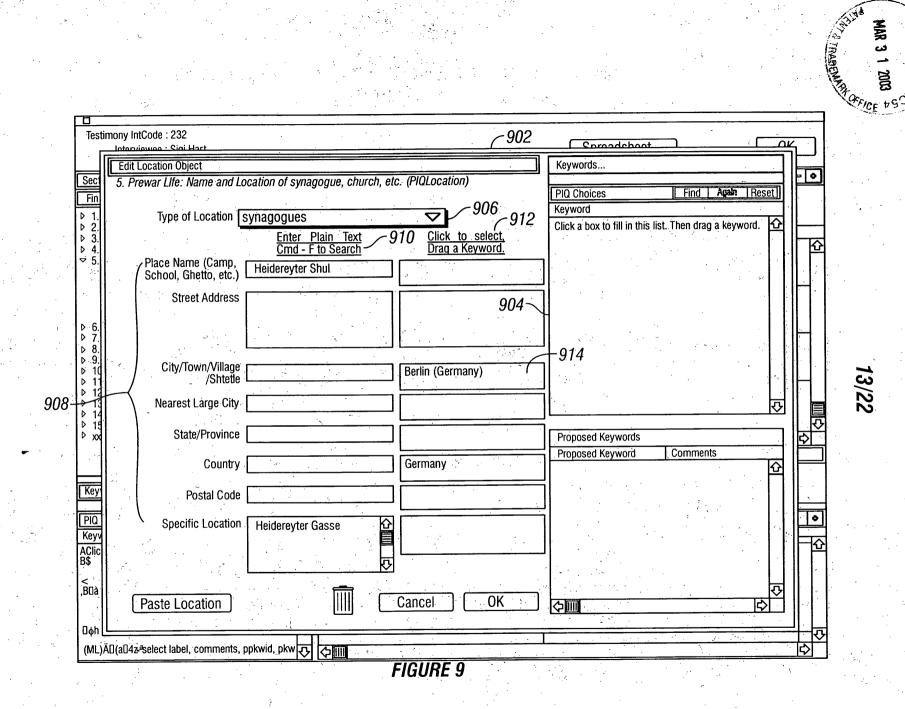
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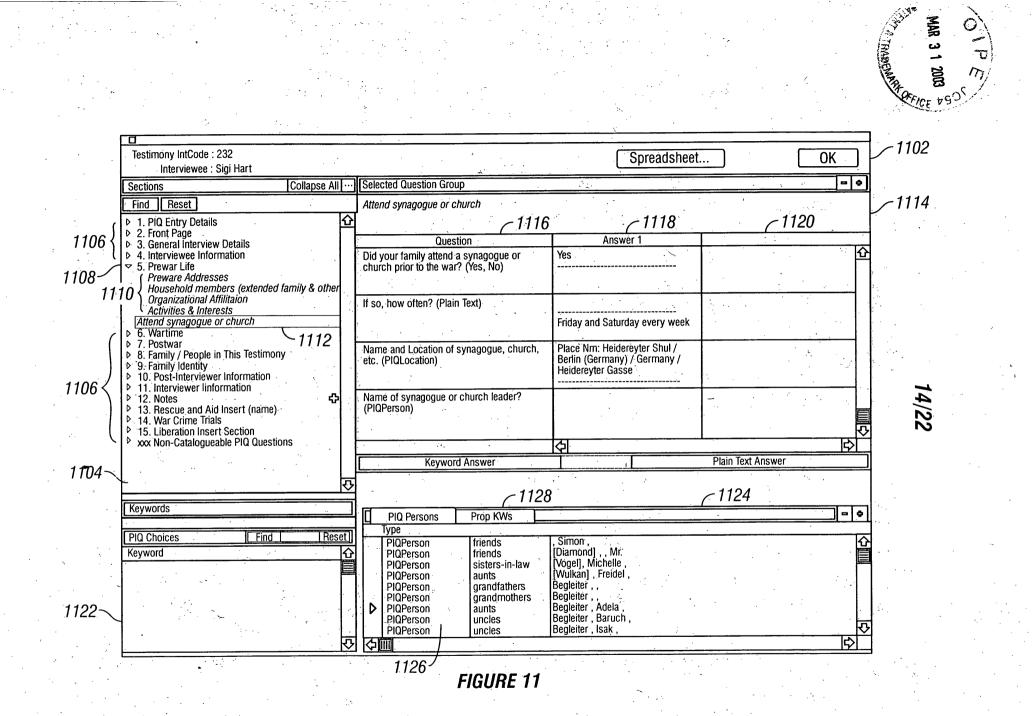


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•	Attend synagogue or church ▶ 6. Wartime	Last Hart	-
	 ▷ 7. Postwar ▷ 8. Family / People in This Testimony 	Alias Type release name	2/22
	 9. Family identity 10. Post-Interviewer Information 		
	11. Interviewer Information	Notes About Difference Control	
	 ▷ 12. Notes ▷ 13. Rescue and Aid Insert (name) 		
. •	 ▶ 14. War Crime Trails ▶ 15. Liberation Insert Section 	Plain Text Answer	
	 ▷ xxx Non-Catalogueable PIQ Questions 	810	
	Keywords	$\mathbf{\nabla}$	
		NOTE : 'Alias Type' is REQUIRED in order to save the record	
	PIQ Choices Find Again Reset	Paste Name Cancel OK	
	Keyword	PIQPerson friends , Simon ,	
-	Aleksander Rebbes Baal Koreh Baal Tefilla	PIQPerson friends [Diamond] , , Mr. PIQPerson sisters-in-law [Vogel], Michelle ;	
· ·	Belzer Rebbes	PIQPerson aunts [Wülkan], Freidel, PIQPerson grandfathers Begleiter,	
	captors	PIQPerson grandmothers Begleiter,	
•	Hager, Rabbi Menahem Mendel Ben Hayyim Halberstam, Rabbi Yekutiel Judah Lubavitcher Rebbes	PIQPerson uncles Begleiter, Baruch,	
	minister	PIQPerson uncles Begleiter, Isak, ↓ ↓	석 👘
			·

FIGURE 8



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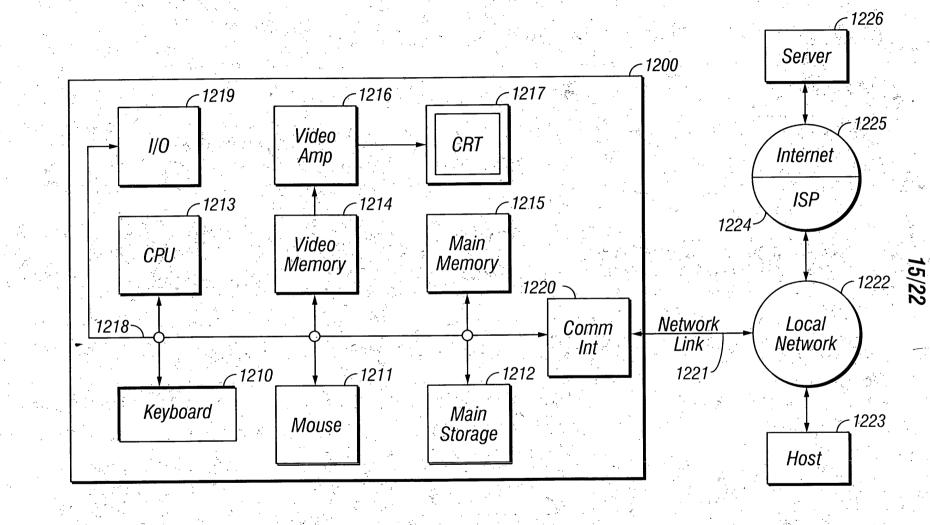


FIGURE 12

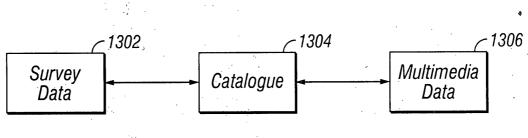
Page 235 of 264

MINDGEEK EXHIBIT 1004

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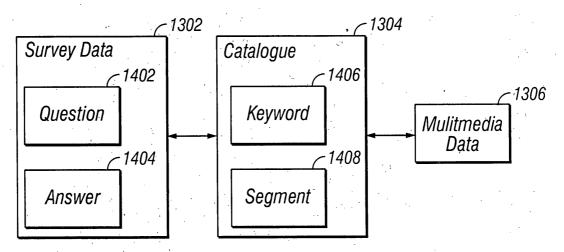
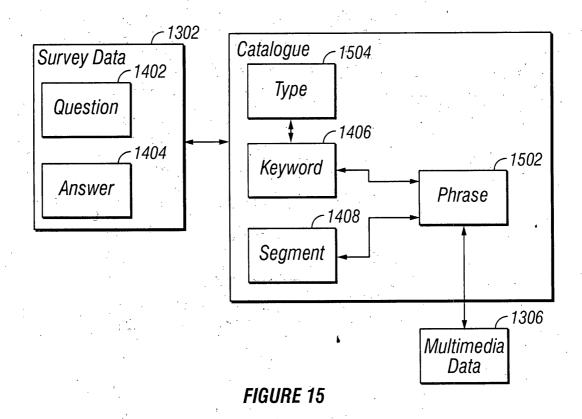
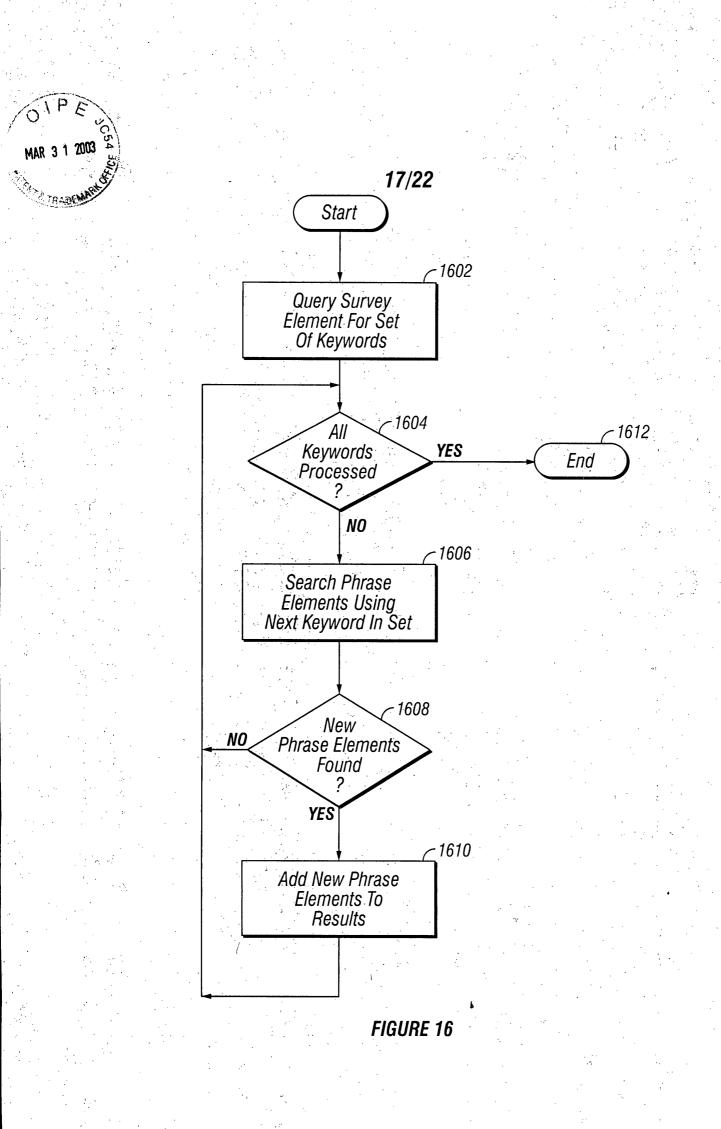
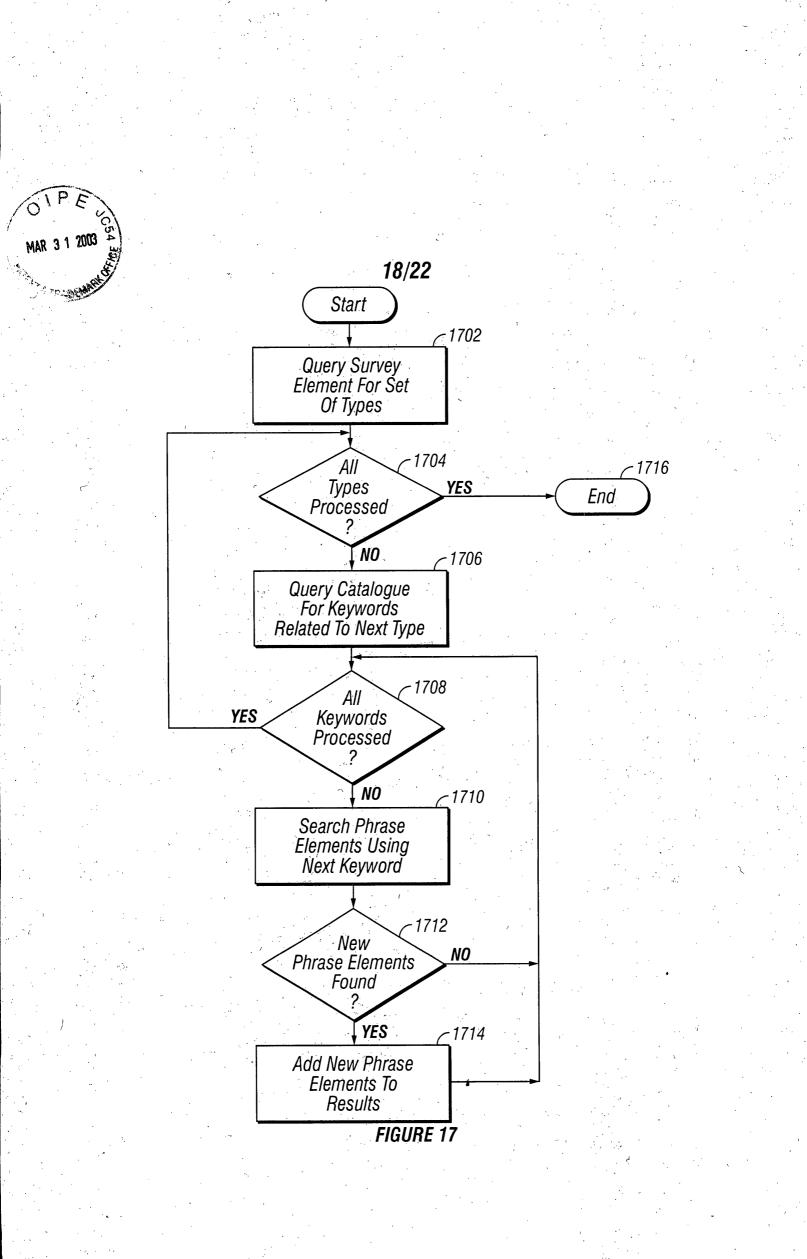


FIGURE 14

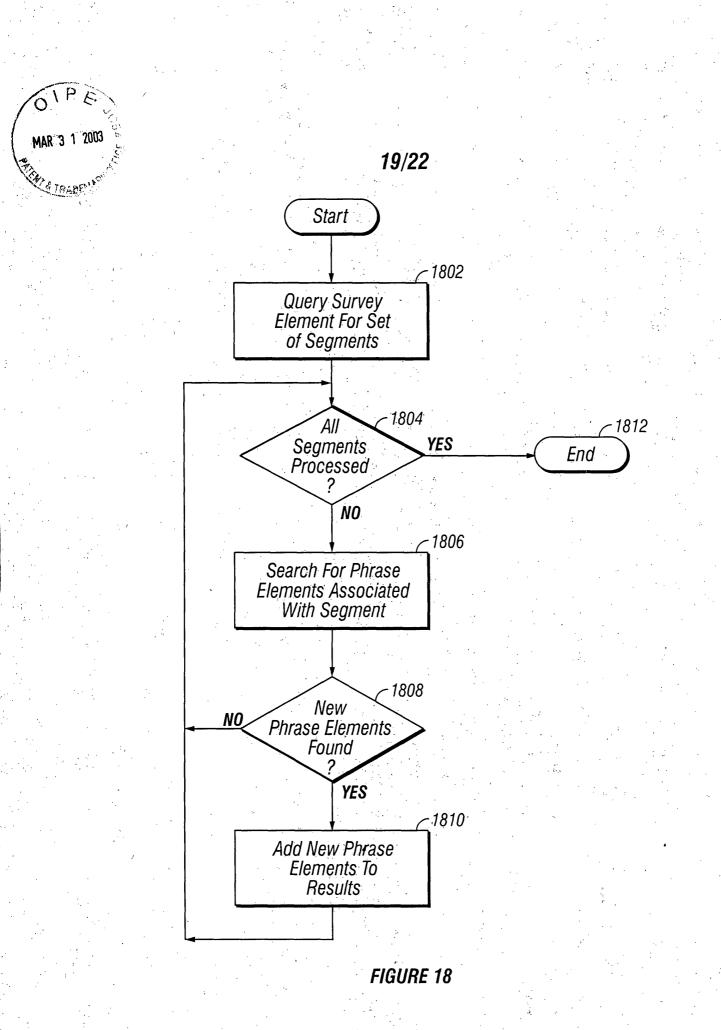




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20/22

Segment ID descriptive phrase set (phrases) 1904- 1910- 1906-	<u>Phrase</u> Input data ID ID descriptive phrase In/Out Timecodes set(keywords) set(persons) set(persons) set(proposed keywords set(proposed persons)	Event ID type sub-type In/Out Timecodes comment 1908
<u>Keyword</u> ID set(types) set(thesaural keywords set(parent keywords) set(child keywords) set(proposed keywords	<u>Type</u> ID Label 1916	Person ID Primary Name Occupation Date of Birth set(proposed persons 5
Thesaural PersonIDNamePreferred Flag192219201912	<u>Thesaural Keyword</u> ID keyword ID Label Language of Choice Preferred Flag Characteristic	Proposed KeywordProposed PersonID LabelID Name19141924
<u>Image/Video</u> ID In/Out Timecodes Locator	<u>Person Information</u> Person ID Person Attribute	~1926

FIGURE 19A

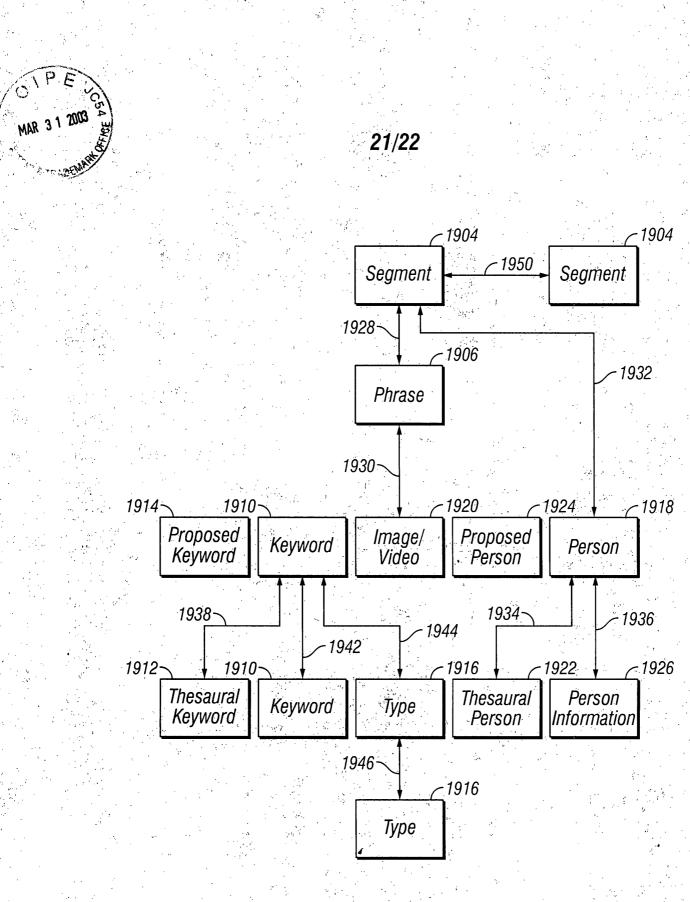
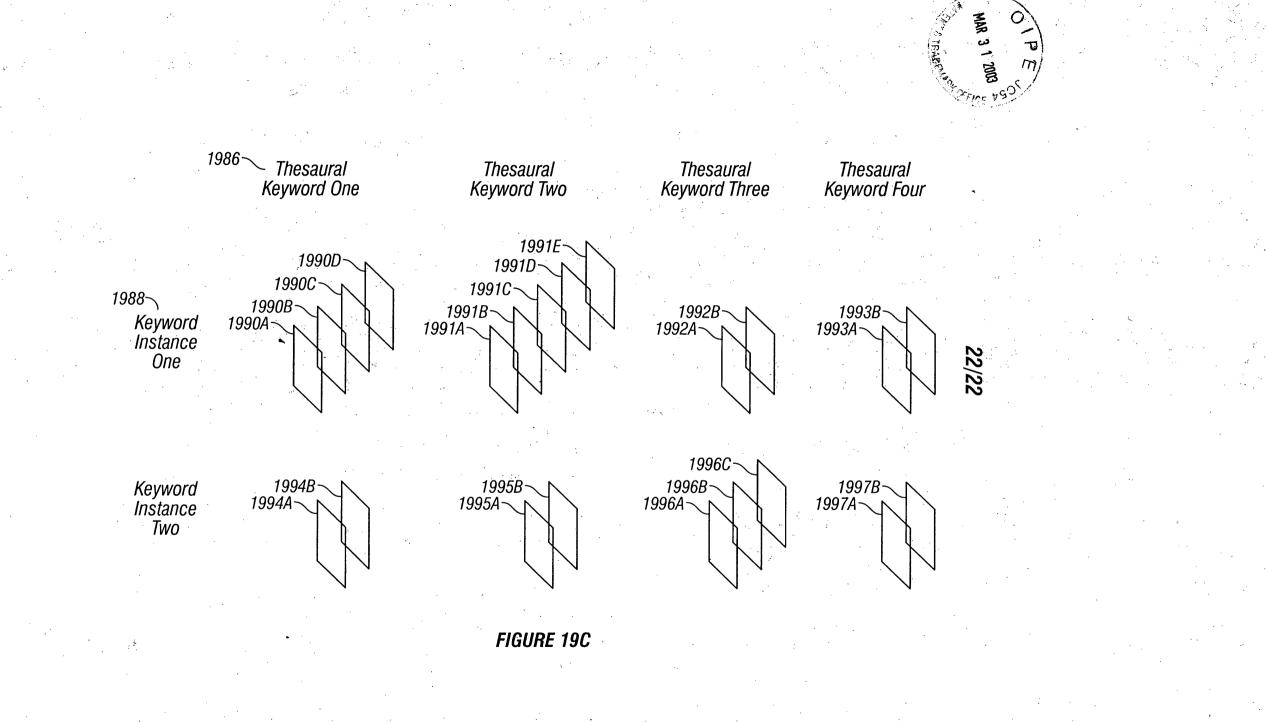


FIGURE 19B



#11/A 4-16-03 SP



84300.916

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

SAMUEL GUSTMAN

Serial No. 09/659,987

Filed: September 12, 2000

For: METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA ... Examiner: Diane D. Mizrahi Group Art Unit: 2175

AMENDMENT AFTER ALLOWANCE

Assistant Commissioner for Patents Washington, D. C. 20231

Dear Sir:

This is in response to the Notice of Allowance dated December 27, 2002.

Please consider the following Amendments After Allowance to the Specification.

1

84300.916

Page 243 of 264

MINDGEEK EXHIBIT 1004

AMENDMENTS

- A Line 8, page 6, "Figure 2 illustrates," changed to "Figures 2A to 2C illustrate" -
- 2. A Line 4, page 22, "of Figure 2," changed to "of Figures 2A-2C" -
- 3. A Line 5, page 24, "Figure 2 illustrates," changed to "Figures 2A to 2C illustrate" -

The above Amendments do not present any substantial change in the specification but are being made in order to conform the specification to the formal drawings, wherein the originally submitted informal drawing designated as Figure 2 was parceled out into three sheets in the formal drawings designated as Figures 2A, 2B and 2C.

Applicant submits: (A) clean copies of pages 6, 22 and 24 wherein the changes as above-described are indicated, and (B) marked copies of pages 6, 22, and 24 wherein the above-described changes are marked.

Respectfully submitted, THE HECKER LAWGROUP By

Date: March 24, 2003

Gary A. Hecker Reg. No. 31,023

2

84300.916

THE HECKER LAW GROUP 1925 Century Park East Suite 2300 Los Angeles, California 90067 (310) 286-0377

CERTIFICATE OF MAILING This is to certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on March 24, 2003 Signature: Mario Federis Date: 3 24 93

84300.916

Page 245 of 264

MINDGEEK EXHIBIT 1004

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(A) Clean copy of Amendment

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BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1A illustrates a schema comprising survey elements according to an embodiment of the invention.

Figure 1B provides an example of reusable survey elements according to an embodiment of the invention.

Figure 1C provides an example of a structure of a survey instance according to an embodiment of the invention.

Figure 2A to 2C illustrate elements of the survey schema of Figure 1A and attributes associated with survey elements according to one or more 10 embodiments of the invention.

Figure 3 illustrates an example of a window in a graphical user interface used to modify instances of section that comprise a survey instance according to an embodiment of the invention.

Figures 4A-4B illustrate add section and question panels according to an 15 embodiment of the invention.

Figure 5 provides an example of a display that is used to edit an instance of question according to an embodiment of the invention.

Figure 6 illustrates a graphical user interface used to edit an instance of choice group according to one or more embodiments of the invention.

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(A) Clean copy of Amendment

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In one or more embodiments of the invention, an answer to an instance of question 108 may be stored in answer 110, answerText 120 and/or data object 122. A single-value answer may be stored in an attribute of answer 110 (e.g., a value stored in attribute 266, "answertext" of Figures 2A-2C). None or more instances of answertext 120 may be used to store additional answer text of a question 108. In an embodiment of the invention, a survey element referred to as data object 122 may be used to store a multi-value answer. In an embodiment of the invention, multiple instances of data object 122 may be used to store a multi-value answer. In an embodiment of the invention, multiple instances of data object 122 may be used to store a multi-value answer to question 108. An attribute of one data object 122 may be stored as attributes of data object 122. Thus, an instance of data object 122 may be associated with another instance of data object 122 and answer 110, for example.

In an embodiment of the invention, data object 122 includes, but is not limited to, person, alias, date, movements and location objects each of which comprise a set of attributes that may be used to store values of a multi-value answer. A person data object may have first name, middle name, last name, date of birth, gender, type, title, etc. attributes, for example. Embodiments of the invention may include additional or different data objects 122 or have additional or different attributes.

Survey schema 160 is used to create none or more survey instances 150. Survey instance 150 may be in a print, electronic or other form, for example. In one or more embodiments of the invention, survey instance 150 may be displayed in a graphical user interface (GUI) which may be used to capture survey data. The GUI may be used by a survey participant to enter answers, or

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(A) Clean copy of Amendment

Survey Schema Element Attributes

In one or more embodiments of the invention, attributes of elements of survey schema 160 comprise attributes that may be used to store information concerning components of a survey instance 150 and data collected for a survey instance 150 (e.g., participant data). Figure 2A to 2C illustrate elements of survey schema 160 of Figure 1A and attributes associated with survey elements according to one or more embodiments of the invention.

Section 102 includes a section identifier attribute 202 ("SectionID") that uniquely identifies each instance of section 102. A parent identifier attribute 204 ("ParentID") identifies a subsection's parent instance of section 102. Attributes 206 and 208 indicate whether an instance of section 102 may have inserts (e.g., instances of insert 104) and the type of insert(s), respectively. Section name attribute 280 ("SectionName") comprises a name or title of an instance of section 102.

In one or more embodiments of the invention, element 130 of survey schema 160 is used to relate section 102 and question group 106 in a many-to-many relationship. That is, section 102 may include none or more instances of question group 106, and none or more instances of section 102 may contain the same instance of question group 106. Instances of element 130 may be identified using attribute 210 ("SectionQ_id"). Attributes 212 and 214 relate an instance of section 102 using its identifier (section identifier 150) and an instance of question group 106 using its identifier (question group identifier 216, "QGroup_id"), respectively.

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MINDGEEK EXHIBIT 1004

Page 248 of 264

(B) Marked copy of Amendment

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BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1A illustrates a schema comprising survey elements according to an embodiment of the invention.

Figure 1B provides an example of reusable survey elements according to an embodiment of the invention.

Figure 1C provides an example of a structure of a survey instance according to an embodiment of the invention.

Figure 2 illustrates Figure 2A to 2C illustrate elements of the survey schema of Figure 1A and attributes associated with survey elements according to one or more embodiments of the invention.

Figure 3 illustrates an example of a window in a graphical user interface used to modify instances of section that comprise a survey instance according to an embodiment of the invention.

Figures 4A-4B illustrate add section and question panels according to an embodiment of the invention.

Figure 5 provides an example of a display that is used to edit an instance of question according to an embodiment of the invention.

Figure 6 illustrates a graphical user interface used to edit an instance of choice group according to one or more embodiments of the invention.

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(B) Marked copy of Amendment

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In one or more embodiments of the invention, an answer to an instance of question 108 may be stored in answer 110, answerText 120 and/or data object 122. A single-value answer may be stored in an attribute of answer 110 (e.g., a value stored in attribute 266, "answertext" of Figure 2- of Figures 2A-2C). None or more instances of answertext 120 may be used to store additional answer text of a question 108. In an embodiment of the invention, a survey element referred to as data object 122 may be used to store a multi-value answer. In an embodiment of the invention, multiple instances of data object 122 may be used to store a multi-value answer. In an embodiment of the invention 108. An attribute of one data object 122 may be used to store a multi-value of one data object 122 may be stored as attributes of data object 122. Thus, an instance of data object 122 may be associated with another instance of data object 122 and answer 110, for example.

In an embodiment of the invention, data object 122 includes, but is not limited to, person, alias, date, movements and location objects each of which comprise a set of attributes that may be used to store values of a multi-value answer. A person data object may have first name, middle name, last name, date of birth, gender, type, title, etc. attributes, for example. Embodiments of the invention may include additional or different data objects 122 or have additional or different attributes.

Survey schema 160 is used to create none or more survey instances 150. Survey instance 150 may be in a print, electronic or other form, for example. In one or more embodiments of the invention, survey instance 150 may be displayed in a graphical user interface (GUI) which may be used to capture survey data. The GUI may be used by a survey participant to enter answers, or

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(B) Marked copy of Amendment

Survey Schema Element Attributes

In one or more embodiments of the invention, attributes of elements of survey schema 160 comprise attributes that may be used to store information concerning components of a survey instance 150 and data collected for a survey instance 150 (e.g., participant data). Figure 2 illustrates - Figure 2A to 2C illustrate elements of survey schema 160 of Figure 1A and attributes associated with survey elements according to one or more embodiments of the invention.

Section 102 includes a section identifier attribute 202 ("SectionID") that uniquely identifies each instance of section 102. A parent identifier attribute 204 ("ParentID") identifies a subsection's parent instance of section 102. Attributes 206 and 208 indicate whether an instance of section 102 may have inserts (e.g., instances of insert 104) and the type of insert(s), respectively. Section name attribute 280 ("SectionName") comprises a name or title of an instance of section 102.

In one or more embodiments of the invention, element 130 of survey schema 160 is used to relate section 102 and question group 106 in a many-to-many relationship. That is, section 102 may include none or more instances of question group 106, and none or more instances of section 102 may contain the same instance of question group 106. Instances of element 130 may be identified using attribute 210 ("SectionQ_id"). Attributes 212 and 214 relate an instance of section 102 using its identifier (section identifier 150) and an instance of question group 106 using its identifier (question group identifier 216, "QGroup_id"), respectively.

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UNIT	<u>ted States Patent ani</u>	D TRADEMARK OFFICE	UNITED STATES DEPARTN United States Patent and T Address: COMMISSIONER OF P Washington, D.C: 20231 www.uspto.gov	rademark Office ATENTS AND TRADEMARKS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
,	09/12/2000 7590 04/17/2003	Samuel Gustman	84300.916	6340
	ER LAW GROUP RY PARK EAST	$(x_1, x_2, \dots, x_{n-1}) \in \mathcal{F}_{n-1}$	EXAM	INER
SUITE 2300	ES, CA 90067		MIŻRAHI,	DIANE D
LOS ANGELI	CS, CA 90007		ART UNIT	PAPER NUMBER
			2175 DATE MAILED: 04/17/2003	#12

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

1.	ALL MARKEN	

UNITED STATES D **ARTMENT OF COMMERCE** United States Paten, and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARK-Washington, D.C. 20231

APPLICATION NUMBER FIL	ING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.	
24 24	•			
	•		EXAMINER	<u> </u>
			ART UNIT PAPER NUMBER	
	х		DATE MAILED:	
Response to Ru				:

7	The amendment filed on <u>3-31-03</u> under 37 CFR 1.312 has been considered, and has been:	
<u>.</u>	a) ventered.	
	b) entered as directed to matter of form not affecting the scope of the invention.	•
	c) disapproved because the amendment was filed after the payment of the issue fee.	

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) disapproved. See explanation below.

entered in part. See explanation below. e) .

Explanation:

Sterie Piearson Publishing Division

9.43p

Attorney Docket: 84300.916

FEB 1 6 2011

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2-19

U.S. Patent No.	:	6,574,638
Appl. No.	:	09/659,987
First Named Inventor:	:	GUSTMAN, SAMUEL
Filed	:	September 12, 2000
Docket No.	:	84300.916
Customer No.	:	22804

Commissioner of Patents U.S. Patent and Trademark Office P.O. Box 1450 Alexandria VA 22313-1450

Payment of Maintenance Fee Deficiency Pursuant to 37 CFR 1.28(c)

Sir:

Pursuant to 37 CFR 1.28(c), the patent owner hereby submits payment as itemized below to correct a deficiency in the 7.5 year maintenance fee paid for U.S. Patent No. 6,574,638 on December 3, 2010. The patent owner inadvertently paid the maintenance fee for a small entity, although at the time of payment, the patent owner was no longer entitled to claim small entity status.

Itemization of Deficiency

Current fee for 7.5 year maintenance fee for other than a small entity:	\$2480.00
Amount actually paid by patent owner on December 3, 2010:	<u>\$1240.00</u>
Total amount of deficiency:	\$1240.00

Payment of Deficiency

Payment for the total amount of the deficiency of \$1240.00 is submitted herewith.

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2011 FEB 23 PH 4: 43

Attorney Docket: 84300.916

• • •

Respectfully submitted,

THE HECKER LAW GROUP

Date: February 15, 2011

By: Frank M. Weyer, Esq. Reg. No. 33,050

2 -

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Page 255 of 264

#14 BOXM

2011 FEB 23 PH 4: 43

Attorney Docket: 84300.916

EB 1 6 2011

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2-18-11

U.S. Patent No.	:	6,574,638
Appl. No.	:	09/659,987
First Named Inventor:	1	GUSTMAN, SAMUEL
Filed	:	September 12, 2000
Docket No.	:	84300.916
Customer No.		22804

Commissioner of Patents U.S. Patent and Trademark Office P.O. Box 1450 Alexandria VA 22313-1450

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Total amount of deficiency:	\$1240.00

Payment of Deficiency

Payment for the total amount of the deficiency of \$1240.00 is submitted herewith.

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01 FC:1599			1248.08	OP

Attorney Docket: 84300.916

Respectfully submitted,

2 -

THE HECKER LAW GROUP

(By: Frank M. Weyer, Esq. Reg. No. 33,050

Date: February 15, 2011

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Page 257 of 264



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 www.uspto.gov

MAILED APR 1 5 2011 OFFICE OF PETITIONS

THE HECKER LAW GROUP 1925 CENTURY PARK EAST SUITE 2300 LOS ANGELES CA 90067

> Paper No. 15 NOTICE

In re Application of Samuel Gustman et al. Patent No. 6,574,638 Application No. 09/659,987 Filed: September 12, 2000 Attorney Docket No. **84300.916**

This is a notice regarding your request for acceptance of a fee deficiency submission under 37 CFR 1.28 February 16, 2011.

The Office no longer investigates or rejects original or reissue applications under 37 CFR 1.56. **1098 Off. Gaz. Pat. Office 502 (January 3, 1989)**. Therefore, nothing in this Notice is intended to imply that an investigation was done.

Your fee deficiency submission under 37 CFR 1.28 is hereby ACCEPTED.

This application is no longer entitled to small entity status. Accordingly, all future fees paid in this application must be paid at the large entity rate.

Inquiries related to this communication should be directed to the undersigned at (571) 272-2783.

/Tredelle D. Jackson/ Paralegal Specialist Office of Petitions

Page 258 of 264

1. A.			· . ·	•.	
PATENT	APPLICATION	FEE DET	ERMIN	NATION	RECORD
	Effective	December	29, 19	999	

Application or Docket Number

OR

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SMALL ENTITY

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SMALL ENTITY

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X39=

+130=

TOTAL

CLAIMS AS FILED - PART I					
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FOR	NUMBER FILED	NUMBER EXTRA			
BASIC FEE					
TOTAL CLAIMS	26 minus 20=,	• 6			
INDEPENDENT CLAIMS	= minus 3 minus 3	* *			
MULTIPLE DEPENDENT CLAIM PRESENT					

* If the difference in column 1 is less than zero, enter "0" in column 2

CLAIMS AS AMENDED - PART II

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***If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

(Column 2)

HIGHEST

NUMBER

PREVIOUSLY

PAID FOR

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

OR

TOTAL

ADDIT. FEE

FORM PTO-875 (Rev. 12/99)

C

AMENDMENT

Total

Independent

MINDGEEK EXHIBIT 1004

TOTA

ADDIT. FEE

Page 259 of 264

FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM

(Column 1)

CLAIMS

REMAINING

AFTER

AMENDMENT

Thomson Innovation Patent Export, 2014-10-13 15:04:03 -0500

Table of Contents

1. US6574638B1 Method and apparatus for cataloguing multimedia data using surveying data

Family 1/1

1 record(s) per family

Record 1/1 US6574638B1 Method and apparatus for cataloguing multimedia data using surveying data

Publication Number: US6574638B1 20030603

Title: Method and apparatus for cataloguing multimedia data using surveying data Title - DWPI: Multimedia data cataloging method for computer system, involves searching survey data to identify catalog element used for identifying multimedia data Priority Number: US2000659987A Priority Date: 2000-09-12 Application Number: US2000659987A Application Date: 2000-09-12 Publication Date: 2003-06-03 IPC Class Table:

IPC	Section	Class	Subclass	Class Group	Subgroup
G06F001730	G	G06	G06F	G06F0017	G06F001730

IPC Class Table - DWPI:

IPC - DWPI	Section - DWPI	Class - DWPI	Subclass - DWPI	Class Group - DWPI	Subgroup - DWPI
G06F001730	G	G06	G06F	G06F0017	G06F001730

Assignee/Applicant: Survivors of the Shoah Visual History Foundation,Los Angeles,CA

JP F Terms:

JP FI Codes:

Assignee - Original: Survivors of the Shoah Visual History Foundation

Any CPC Table:

Туре	Invention	Additional	Version	Office
Current	G06F 17/30017	Y10S 707/99943	20130101	EP
Current		Y10S 707/99945	20130101	EP

Page 261 of 264

MINDGEEK EXHIBIT 1004

1

ECLA: G06F001730E

Abstract:

A method and apparatus is described wherein survey data collected from different survey versions may be retained in a cohesive data, or knowledge, base that may be used to catalogue multimedia data. A survey schema is defined that comprises survey elements that may be used to define surveys and capture survey data. In one or more embodiments of the invention, survey data may be linked to a multimedia cataloguing system. The linked survey data may be used alone or in combination with the cataloguing system to retrieve multimedia data.

Language of Publication: EN

INPADOC Legal Status Table:

Gazette Date	Code	INPADOC Legal Status Impact						
2011-02-16	SULP	+						
Description: SURCHARGE FOR LATE P.	Description: SURCHARGE FOR LATE PAYMENT							
2010-12-03	FPAY	+						
Description: FEE PAYMENT								
2010-03-12	AS	-						
Description: ASSIGNMENT UNIVERSITY OF SOUTHERN CALIFORNIA, CALIFORNIA ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SURVIVORS OF THE SHOAH VISUAL HISTORY FOUNDATION; REEL/FRAME:024066/0834 2005-12-31								
2006-11-28	FPAY	+						
Description: FEE PAYMENT								
2001-06-11	AS	-						
Description: ASSIGNMENT SURVIVORS OF THE SHOAH VISUAL HISTORY FOUNDATION, ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GUSTMAN, SAMUEL; DELURY, BARBARA; REEL/FRAME:011884/0847; SIGNING DATES FROM 20010406 TO 20010423								

Post-Issuance (US):

Reassignment (US) Table:

Assignee	Assignor	Date Signed	Reel/Frame	Date			
UNIVERSITY OF SOUTHERN CALIFORNIA,LOS ANGELES,CA,US	SURVIVORS OF THE SHOAH VISUAL HISTORY FOUNDATION	2005-12-31	024066/0834	2010-03-12			
Conveyance: ASSIGNMENT	OF ASSIGNORS INTEREST (SE	E DOCUMENT FOR	DETAILS).				
Corresponent: GARY A. HEC	KER 1925 CENTURY PARK EAS	ST SUITE 2300 LOS A	ANGELES, CA 90067				
SURVIVORS OF THE	GUSTMAN, SAMUEL	2001-04-23	011884/0847	2001-06-11			
SHOAH VISUAL HISTORY FOUNDATION,UNIVERSAL CITY,CA,US	DELURY, BARBARA	2001-04-06					
Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).							
Corresponent: THE HECKER LAW GROUP GARY A. HECKER 1925 CENTURY PARK EAST, SUITE 2300 LOS ANGELES, CALIFORNIA 90067							

Maintenance Status (US):

Litigation (US): 2011-12-02 2011 Preservation Technologies LLC Netflix, Inc. Amazon.com Inc. Amazon.com Inc. Facebook Inc. Sony Corporation of America Dish Network Corporation C.D. California 8:11cv01862 Patent Infringement | 2011-12-02 2011 Preservation Technologies LLC Google Inc Youtube LLC C.D. California 8:11cv01860 | 2011-12-27 2011 Preservation Technologies LLC Hulu LLC C.D. California 8:11cv01985 | 2011-12-27 2011 Preservation Technologies LLC Sony Corporation of America C.D. California 2:11cv10694 | 2011-12-27 2011 Preservation Technologies LLC Dish Network Corporation C.D. California 2:11cv10692 | 2011-12-27 2011 Preservation Technologies LLC Facebook Inc C.D. California 2:11cv10701 | 2011-12-27 2011 Preservation Technologies LLC Sony Corporation of America C.D. California 2:11cv10694 | 2013-10-11 2013 Preservation Technologies LLC Target Brands Inc. Delaware` 1:13cv01692 Opposition (EP): License (EP):

Front Page Drawing:

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USPTO Maintenance Report

Patent Bibliog	aphic Data		10/13/2014 04:02 PM			
Patent Number:	6574638		Application Number:	09659987		
Issue Date:	06/03/2003		Filing Date:	09/12/2000		
Title:	METHOD AND APPARATUS FOR CATALOGUING MULTIMEDIA DATA USING SURVEYING DATA					
Status:	12th year fee v	window opens: 06/0	3/2014	Entity:	LARGE	
Window Opens:	06/03/2014	Surcharge Date:	12/04/2014	Expiration:	N/A	
Fee Amt Due:	\$7,400.00	Surchg Amt Due:	\$0.00	Total Amt Due:	\$7,400.00	
Fee Code:	1553	MAINTENANCE	FEE DUE AT	11.5 YEARS		
Surcharge Fee Code:						
Most recent events (up to 7):	02/16/2011 12/03/2010 11/28/2006	Payment of Maintenance Fee under 1.28(c). Payment of Maintenance Fee, 8th Yr, Small Entity. Payment of Maintenance Fee, 4th Yr, Small Entity. End of Maintenance History				
Address for fee purposes:	THE HECKER LAW GROUP 1925 CENTURY PARK EAST SUITE 2300 LOS ANGELES CA 90067					