U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1862

JUNE 5, 2007

PROJECT Y-7121

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Searc h Room
Abolished:	None			
Established:	707	E-Subclasses: E17.001-E17.009, E17.01, E17.011-E17.019, E17.02, E17.021-E17.029, E17.03, E17.031-E17.039, E17.04, E17.041-E17.049, E17.05, E17.051-E17.059, E17.06, E17.061-E17.069, E17.07, E17.071-E17.079, E17.08, E17.081-E17.089, E17.09, E17.091-E17.099, E17.1, E17.111-E17.119, E17.12, E17.121-E17.129, E17.13, E17.131-E17.139, E17.14, E17.141-E17.143	2161	Not Applicable

No other classes were impacted by this order.

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1862

JUNE 5, 2007

PROJECT Y-7121

Project Leaders: Yen M. Nguyen

Editor: Mildred Chisholm

Editorial Assistant: Yvonne Smith

JUNE 2007

1	DATABASE OR FILE ACCESSING	E17.004	Of images (EPO)
2	.Access augmentation or optimizing	E17.005	.Interfaces; database management
3	.Query processing (i.e., searching)		systems; updating (EPO)
4	Query formulation, input preparation,	E17.006	File format conversion (EPO)
	or translation	E17.007	.Concurrency control and recovery (EPO)
5	Query augmenting and refining (e.g.,	E17.008	.Document retrieval systems (EPO)
	inexact access)	E17.009	.Information processing systems, e.g.,
6	. Pattern matching access		multimedia systems, etc. (EPO)
7	Sorting	E17.01	.File systems; file servers (EPO)
8	.Concurrency (e.g., lock management in shared database)	E17.011	Processing chained data, e.g., graphs, linked lists, etc. (EPO)
9	.Privileged access	E17.012	Trees (EPO)
10	.Distributed or remote access	E17.013	Hypermedia (EPO)
100	DATABASE SCHEMA OR DATA STRUCTURE	E17.014	.Query processing for the retrieval of
101	.Manipulating data structure (e.g.,		structured data (EPO)
	compression, compaction,	E17.015	. Natural language query interface (EPO)
	compilation)	E17.016	Menu driven systems; graphical
102	.Generating database or data structure (e.q., via user interface)	D10 010	querying; query-by-example (EPO)
103 B		E17.017	Query optimization (EPO)
103 R	.Object-oriented database structure	E17.018	.In geographical information databases (EPO)
103 Y	Object-oriented database structure processing	E17.019	.In image databases (EPO)
103 X	Object-oriented database structure	E17.013	. Based on image content (EPO)
103 A	network	E17.021	Using color (EPO)
103 Z	Object-oriented database structure	E17.021	Using extracted text (EPO)
	reference	E17.022	Using extracted text (EFO)
104.1	Application of database or data structure (e.g., distributed,	,	features (EPO)
	multimedia, image)	E17.024	Using shape and object relationship (EPO)
200	FILE OR DATABASE MAINTENANCE	E17.025	Using texture (EPO)
201	.Coherency (e.g., same view to multiple	E17.025	Based on bibliographical data of
	users)	E17.026	images (EPO)
202	Recoverability	E17.027	The images having vectorial formats
203	Version management		(EPO)
204	.Archiving or backup	E17.028	The images being video sequences (EPO)
205	File allocation	E17.029	By browsing (EPO)
206	Garbage collection	E17.03	By graphical querying (EPO)
E-SUBC	LASSES	E17.031	Data organization and access thereof (EPO)
	ollowing subclasses beginning with tter E are E-subclasses. Each E-	E17.032	.Using distributed data base systems, e.g., networks, etc. (EPO)
	ss corresponds in scope to a clas-	E17.033	.Processing unordered data (EPO)
	tion in a foreign classification	E17.034	Random access (EPO)
sifica	, for example, the European Clas- tion system (ECLA). The foreign	E17.035	Using parallel associative memories (EPO)
class	fication equivalent to an E-sub- is identified in the subclass def-	E17.036	By address calculation or conversion, e.g., hashing, etc. (EPO)
	fied in E-subclasses by U.S. ex-	E17.037	Using directory or table look-up
fied	s, documents are regularly classi- in E-subclasses according to the	17 A20	(EPO)Using more than one table in
classi	fication practices of any foreign sidentified in parentheses at the	E17.038	sequence, i.e., systems with
1	the title. For example, "(EPO)"	B10 020	three or more layers, etc. (EPO)
at the	e end of a title indicates both	E17.039	Sequential access, e.g., string matching, etc. (EPO)
	an and U.S. patent documents, as	E17.04	On static storage (EPO)
	fied by the EPO, are regularly	ET1.04	on beacte Storage (Bro)
	to the subclass. E-subclasses may n subject matter outside the scope		
	s class. Consult the E-subclass	-	

selves, to clarify or interpret titles.

E17.001 INFORMATION RETRIEVAL; DATABASE STRUCTURES THEREFORE (EPO)

of this class. Consult the E-subclass definitions, or the documents them-

E17.002 Data Indexing; Abstracting; Data Reduction (EPO)

E17.003 .. Of chemical information (EPO)

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

JUNE 2007

	INFORMATION RETRIEVAL; DATABASE	E17.073	Translation of the query language,
	STRUCTURES THEREFORE (EPO)		e.g., Chinese to English, etc.
	.Processing unordered data (EPO)		(EPO)
	Sequential access, e.g., string	E17.074	Query expansion (EPO)
	matching, etc. (EPO)	E17.075	Query execution (EPO)
E17.041	Comparing simultaneously a plurality	E17.076	Using Boolean model (EPO)
DI//OIL	of search arguments with a simple	E17.077	Using phonetics (EPO)
	file data, finite state machine	E17.078	Using natural language analysis
	(EPO)	11.070	(EPO)
E17.042	Comparing simultaneously search	E17.079	Using probabilistic model (EPO)
EI/.042	arguments with more than one file		
-	data (EPO)	E17.08	Using vector based model (EPO)
E17,043	Comparing simultaneously search	E17.081	Reuse of stored results of previous
E17.043	arguments with more than one file		queries (EPO)
	data (EPO)	E17.082	Presentation or visualization of
E17.044	.In structured data stores (EPO)		query results (EPO)
	Relational databases (EPO)	E17.083	. Indexing (EPO)
E17.045		E17.084	Selection or weighting of terms for
E17.046	Clustering or classification (EPO)		indexing (EPO)
E17.047	Including cluster or class	E17.085	Physical indexing structures (EPO)
	visualization or browsing (EPO)	E17.086	Inverted lists (EPO)
E17.048	Entity relationship models (EPO)	E17.087	Trees (EPO)
E17.049	Physical indexing structures (EPO)	E17.088	Index managing details (EPO)
E17.05	Trees, e.g., B+ trees, etc. (EPO)	E17.089	Clustering or classification (EPO)
E17.051	Vectors, bitmaps or matrices (EPO)	E17.003	Into predefined classes (EPO)
E17.052	Hash tables (EPO)		
E17.053	Index managing details (EPO)	E17.091	Including class or cluster creation or modification (EPO)
E17.054	Relational operators, e.g., joins,		
E17.034	transitive closure, partitioning,	E17.092	Including cluster or class
	etc. (EPO)		visualization or browsing (EPO)
E17.055	Object oriented databases (EPO)	E17.093	Browsing or visualization (EPO).
E17.056	Multidimensional databases (EPO)	E17.094	Summarization for human users (EPO)
		E17.095	. Based on associated metadata or manual
E17.057	Indexing (EPO)		classification, e.g., bibliographic
E17.058	.Of unstructured textual data (EPO)		data, etc. (EPO)
E17.059	Filtering based on additional data,	E17.096	Using identifiers, e.g., barcodes,
	e.g., user or group profiles, etc.		radio frequency identifications,
	(EPO)		etc. (EPO)
E17.06	Profile generation, learning or	E17.097	Using citations (EPO)
	modification (EPO)	E17.098	Creation of semantic tools (EPO)
E17.061	Querying (EPO)	E17.099	Ontology (EPO)
E17.062	Query formulation (EPO)	E17.1	Thesaurus (EPO)
E17.063	Reformulation based on results of	E17.101	Of audio data (EPO)
	preceding query (EPO)	E17.102	Based on associated metadata, e.g.,
E17.064	Using relevance feedback from the	11111102	bibliographic data, images
	user, e.g., relevance feedback		associated with audio data, etc.
	on documents, documents sets,		(EPO)
•	document terms or passages, etc.	E17.103	Wherein the metadata is a transcript
	(EPO)	22772	of the audio data (EPO)
E17.065	Using graphical result space	E17.104	.Processing sequentially ordered data,
	presentation or visualization	DI/ LIGH	e.g., alpha-numerically ordered,
	(EPO)		etc. (EPO)
E17.066	Using system suggestions (EPO)	E17.105	Binary access (EPO)
E17.067	Using document space presentation	E17.106	Sequential access (EPO)
	or visualization, e.g.,		*
	category, hierarchy or range	E17.107	Retrieval from the Internet, e.g.,
	presentation and selection, etc.		browsers, etc. (EPO)
	(EPO)	E17.108	By querying, e.g., search engines or
E17.068	Natural language query formulation		meta-search engines, crawling
	or dialogue systems (EPO)		techniques, push systems, etc.
E17.069	Query processing (EPO)		(EPO)
E17.07	Query translation (EPO)	E17.109	With filtering and personalization
E17.071	Selection or weighting of terms		(EPO)
	from queries, including natural		
	language queries (EPO)		
E17.072	Syntactic pre-processing steps,		
	e.g., stopword elimination,		
	stemming, etc. (EPO)		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

JUNE 2007

			100E 2007
	INFORMATION RETRIEVAL; DATABASE STRUCTURES THEREFORE (EPO)		range presentation and selection, etc. (EPO)
	Retrieval from the Internet, e.g., browsers, etc. (EPO)	E17.139	Natural language query formulation or dialogue systems (EPO)
	By querying, e.g., search engines or meta-search engines, crawling	E17.14 E17.141	Query processing (EPO)Presentation or visualization of
	techniques, push systems, etc.	-45 440	query results (EPO)
D1 0 1 1 1	(EPO)	E17.142	Browsing or visualization (EPO)
E17.11	Spatially dependent indexing and retrieval, e.g., location	E17.143	Retrieval based on associated metadata
	dependent results to queries, etc.		(EPO)
	(EPO)		FOREIGN ART COLLECTION
E17.111	By navigation, e.g., using categorized		******************************
	<pre>browsing, portals, synchronized browsing, visual networks of documents, virtual worlds or tours, etc. (EPO)</pre>	FOR 000	CLASS-RELATED FOREIGN DOCUMENTS
E17.112	<pre>. By using information identifiers, e.g., encoding URL in specific indicia, browsing history, etc. (EPO)</pre>		
E17.113	By using bar codes (EPO)		
E17.114	Bookmark management (EPO)		
E17.115	URL specific, e.g., using aliases,		
22,725	detecting broken or misspelled links, etc. (EPO)		
E17.116	. Web site content organization and management, e.g., publishing, automatic linking or maintaining pages, etc. (EPO)		
E17.117	Access to data in other repository		·
	<pre>systems, e.g., legacy data or dynamic web page generation, etc. (EPO)</pre>		
E17.118	Document structures and storage, e.g., HTML extensions, etc. (EPO)		
E17.119	Browsing optimization (EPO)		•
E17.12	Of access to content, e.g., by caching, etc. (EPO)		
E17.121	Optimizing the visualization of content, e.g., distillation of HTML documents, etc. (EPO)		
E17.122	Of semistructured data, the underlying structure being taken into account,		
	e.g., mark-up language structure data, etc. (EPO)		
E17.123	(EPO)	·	
E17.124	Mapping or conversion (EPO)Mapping to a database (EPO)		
E17.125 E17.126	Mark-up to mark-up conversion (EPO)		
E17.127	.XML native databases, structures and querying (EPO)		
E17.128	Query formulation (EPO)		
E17.129	Query processing (EPO)		
E17.13	Query translation (EPO)		
E17.131	Query optimization (EPO)		
E17.132	Query execution (EPO)		
E17.133	Results presentation (EPO)		
E17.134	Details of database functions independent of the retrieved data type (EPO)		•
E17.135	Querying (EPO)		
E17.136	Query formulation (EPO)	•	
E17.137	Using system suggestions (EPO)		· ·
E17.138	Using search space presentation or visualization, e.g., category or	•	

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

CLASS 707 – DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA

E-SUBCLASSES

The E-subclasses in U.S. Class 707 provide for digital computing or data processing equipment or methods specially adapted for the retrieval of information data and database structures for such data.

E17.001 INFORMATION RETRIEVAL; DATABASE STRUCTURES THEREFORE (EPO):

This group of subclasses provide for digital computing or data processing equipment or methods specially adapted for the retrieval of information and data base structures for such data. This subclass is substantially the same in scope as ECLA classification G06F17/30.

(1) Note. This group includes compilation of abstracts.

E17.002 Data indexing; abstracting; data reduction (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30A.

E17.003 Of chemical information (EPO):

This subclass is indented under subclass E17.002. This subclass is substantially the same in scope as ECLA classification G06F17/30A2.

E17.004 Of images (EPO):

This subclass is indented under subclass E17.002. This subclass is substantially the same in scope as ECLA classification G06F17/30A3.

E17.005 Interfaces; database management systems; updating (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30B.

E17.006 File format conversion (EPO):

This subclass is indented under subclass E17.005. This subclass is substantially the same in scope as ECLA classification G06F17/30B2.

E17.007 Concurrency control and recovery (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30C.

E17.008 Document retrieval systems (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30D.

E17.009 Information processing systems, e.g., multimedia systems, etc. (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30E.

E17.01 File systems; file servers (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30F.

E17.011 Processing chained data, e.g., graphs, linked lists, etc. (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30G.

E17.012 Trees (**EPO**):

This subclass is indented under subclass E17.011. This subclass is substantially the same in scope as ECLA classification G06F17/30G3.

E17.013 Hypermedia (EPO):

This subclass is indented under subclass E17.011. This subclass is substantially the same in scope as ECLA classification G06F17/30G4.

E17.014 Query processing for the retrieval of structured data (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30H.

E17.015 Natural language query interface (EPO):

This subclass is indented under subclass E17.014. This subclass is substantially the same in scope as ECLA classification G06F17/30H2.

E17.016 Menu driven systems; graphical querying; query-by-example (EPO):

This subclass is indented under subclass E17.014. This subclass is substantially the same in scope as ECLA classification G06F17/30H4.

E17.017 Query optimization (EPO):

This subclass is indented under subclass E17.014. This subclass is substantially the same in scope as ECLA classification G06F17/30H6.

E17.018 In geographical information databases (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30L.

E17.019 In image databases (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30M.

E17.02 Based on image content (EPO):

This subclass is indented under subclass E17.019. This subclass is substantially the same in scope as ECLA classification G06F17/30M1.

E17.021 Using color (EPO):

This subclass is indented under subclass E17.02. This subclass is substantially the same in scope as ECLA classification G06F17/30M1C.

E17.022 Using extracted text (EPO):

This subclass is indented under subclass E17.02. This subclass is substantially the same in scope as ECLA classification G06F17/30M1E.

E17.023 Using a combination of image content features (EPO):

This subclass is indented under subclass E17.02. This subclass is substantially the same in scope as ECLA classification G06F17/30M1H.

E17.024 Using shape and object relationship (EPO):

This subclass is indented under subclass E17.02. This subclass is substantially the same in scope as ECLA classification G06F17/30M1S.

E17.025 Using texture (EPO):

This subclass is indented under subclass E17.02. This subclass is substantially the same in scope as ECLA classification G06F17/30M1T.

E17.026 Based on bibliographical data of images (EPO):

This subclass is indented under subclass E17.019. This subclass is substantially the same in scope as ECLA classification G06F17/30M2.

E17.027 The images having vectorial formats (EPO):

This subclass is indented under subclass E17.019. This subclass is substantially the same in scope as ECLA classification G06F17/30M4.

E17.028 The images being video sequences (EPO):

This subclass is indented under subclass E17.019. This subclass is substantially the same in scope as ECLA classification G06F17/30M5.

E17.029 By browsing (EPO):

This subclass is indented under subclass E17.019. This subclass is substantially the same in scope as ECLA classification G06F17/30M7.

E17.03 By graphical querying (EPO):

This subclass is indented under subclass E17.019. This subclass is substantially the same in scope as ECLA classification G06F17/30M8.

E17.031 Data organization and access thereof (EPO):

This subclass is indented under subclass E17.019. This subclass is substantially the same in scope as ECLA classification G06F17/30M9.

E17.032 Using distributed data base systems, e.g., networks, etc. (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30N.

E17.033 Processing unordered data (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30P.

E17.034 Random access (EPO):

This subclass is indented under subclass E17.033. This subclass is substantially the same in scope as ECLA classification G06F17/30P1.

E17.035 Using parallel associative memories (EPO):

This subclass is indented under subclass E17.034. This subclass is substantially the same in scope as ECLA classification G06F17/30P1A.

E17.036 By address calculation or conversion, e.g., hashing etc. (EPO):

This subclass is indented under subclass E17.034. This subclass is substantially the same in scope as ECLA classification G06F17/30P1C.

E17.037 Using directory or table look-up (EPO):

This subclass is indented under subclass E17.034. This subclass is substantially the same in scope as ECLA classification G06F17/30P1D.

E17.038 Using more than one table in sequence, i.e., systems with three or more layers, etc. (EPO):

This subclass is indented under subclass E17.037. This subclass is substantially the same in scope as ECLA classification G06F17/30P1D3.

E17.039 Sequential access, e.g., string matching, etc. (EPO):

This subclass is indented under subclass E17.033. This subclass is substantially the same in scope as ECLA classification G06F17/30P2.

E17.04 On static storage (EPO):

This subclass is indented under subclass E17.039. This subclass is substantially the same in scope as ECLA classification G06F17/30P2S.

E17.041 Comparing simultaneously a plurality of search arguments with a simple file data, finite state machine (EPO):

This subclass is indented under subclass E17.039. This subclass is substantially the same in scope as ECLA classification G06F17/30P2A.

E17.042 Comparing simultaneously search arguments with more than one file data (EPO):

This subclass is indented under subclass E17.039. This subclass is substantially the same in scope as ECLA classification G06F17/30P2F.

E17.043 Comparing simultaneously search arguments with more than one file data (EPO):

This subclass is indented under subclass E17.042. This subclass is substantially the same in scope as ECLA classification G06F17/30P2S9.

E17.044 In structured data stores (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30S.

E17.045 Relational databases (EPO):

This subclass is indented under subclass E17.044. This subclass is substantially the same in scope as ECLA classification G06F17/30S1.

E17.046 Clustering or classification (EPO):

This subclass is indented under subclass E17.045. This subclass is substantially the same in scope as ECLA classification G06F17/30S1C.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.089, for textual data.

E17.047 Including cluster or class visualization or browsing (EPO):

This subclass is indented under subclass E17.046. This subclass is substantially the same in scope as ECLA classification G06F17/30S1C1.

E17.048 Entity relationship models (EPO):

This subclass is indented under subclass E17.045. This subclass is substantially the same in scope as ECLA classification G06F17/30S1E.

E17.049 Physical indexing structures (EPO):

This subclass is indented under subclass E17.045. This subclass is substantially the same in scope as ECLA classification G06F17/30S1N.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.059, for indexing structures for textual data.

E17.05 Trees, e.g., B+ trees, etc. (EPO):

This subclass is indented under subclass E17.049. This subclass is substantially the same in scope as ECLA classification G06F17/30S1N1.

E17.051 Vectors, bitmaps or matrices (EPO):

This subclass is indented under subclass E17.049. This subclass is substantially the same in scope as ECLA classification G06F17/30S1N3.

E17.052 Hash tables (EPO):

This subclass is indented under subclass E17.049. This subclass is substantially the same in scope as ECLA classification G06F17/30S1N5.

E17.053 Index managing details (EPO):

This subclass is indented under subclass E17.049. This subclass is substantially the same in scope as ECLA classification G06F17/30S1N7.

E17.054 Relational operators, e.g., joins, transitive closure, partitioning, etc. (EPO):

This subclass is indented under subclass E17.045. This subclass is substantially the same in scope as ECLA classification G06F17/30S1R.

E17.055 Object oriented databases (EPO):

This subclass is indented under subclass E17.044. This subclass is substantially the same in scope as ECLA classification G06F17/30S3.

E17.056 Multidimensional databases (EPO):

This subclass is indented under subclass E17.044. This subclass is substantially the same in scope as ECLA classification G06F17/30S5.

E17.057 Indexing (EPO):

This subclass is indented under subclass E17.056. This subclass is substantially the same in scope as ECLA classification G06F17/30S5N.

E17.058 Of unstructured textual data (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30T.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.008, for document management systems.

E17.059 Filtering based on additional data, e.g., user or group profiles, etc. (EPO):

This subclass is indented under subclass E17.058. This subclass is substantially the same in scope as ECLA classification G06F17/30T3.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.109, for filtering in web context.

E17.06 Profile generation, learning or modification (EPO):

This subclass is indented under subclass E17.059. This subclass is substantially the same in scope as ECLA classification G06F17/30T3L.

E17.061 Querying (EPO):

This subclass is indented under subclass E17.058. This subclass is substantially the same in scope as ECLA classification G06F17/30T2.

E17.062 Ouerv formulation (EPO):

This subclass is indented under subclass E17.061. This subclass is substantially the same in scope as ECLA classification G06F17/30T2F.

E17.063 Reformulation based on results of preceding query (EPO):

This subclass is indented under subclass E17.062. This subclass is substantially the same in scope as ECLA classification G06F17/30T2F2.

E17.064 Using relevance feedback from the user, e.g., relevance feedback on

documents, documents sets, document terms or passages, etc. (EPO):

This subclass is indented under subclass E17.063. This subclass is substantially the same in scope as ECLA classification G06F17/30T2F2R.

E17.065 Using graphical result space presentation or visualization (EPO):

This subclass is indented under subclass E17.064. This subclass is substantially the same in scope as ECLA classification G06F17/30T2F2R1.

E17.066 Using system suggestions (EPO):

This subclass is indented under subclass E17.062. This subclass is substantially the same in scope as ECLA classification G06F17/30T2F1.

E17.067 Using document space presentation or visualization, e.g., category,

hierarchy or range presentation and selection, etc. (EPO):

This subclass is indented under subclass E17.066. This subclass is substantially the same in scope as ECLA classification G06F17/30T2F1V.

E17.068 Natural language query formulation or dialogue systems (EPO):

This subclass is indented under subclass E17.062. This subclass is substantially the same in scope as ECLA classification G06F17/30T2F4.

E17.069 Query processing (EPO):

This subclass is indented under subclass E17.061. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P.

E17.07 Query translation (EPO):

This subclass is indented under subclass E17.069. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P2.

E17.071 Selection or weighting of terms from queries, including natural language queries (EPO):

This subclass is indented under subclass E17.07. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P2E.

E17.072 Syntactic pre-processing steps, e.g., stopword elimination, stemming, etc. (EPO):

This subclass is indented under subclass E17.07. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P2S.

E17.073 Translation of the query language, e.g., Chinese to English, etc. (EPO):

This subclass is indented under subclass E17.07. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P2T.

E17.074 Query expansion (EPO):

This subclass is indented under subclass E17.07. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P2X.

E17.075 Ouerv execution (EPO):

This subclass is indented under subclass E17.069. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P4.

E17.076 Using Boolean model (EPO):

This subclass is indented under subclass E17.075. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P4B.

E17.077 Using phonetics (EPO):

This subclass is indented under subclass E17.075. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P4F.

E17.078 Using natural language analysis (EPO):

This subclass is indented under subclass E17.075. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P4N.

E17.079 Using probabilistic model (EPO):

This subclass is indented under subclass E17.075. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P4P.

E17.08 Using vector based model (EPO):

This subclass is indented under subclass E17.075. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P4V.

JUNE 5, 2007

PROJECT Y-7121

D-8

E17.081 Reuse of stored results of previous queries (EPO):

This subclass is indented under subclass E17.069. This subclass is substantially the same in scope as ECLA classification G06F17/30T2P9.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.063, for formulation of new queries.

E17.082 Presentation or visualization of query results (EPO):

This subclass is indented under subclass E17.061. This subclass is substantially the same in scope as ECLA classification G06F17/30T2V.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.093, browsing or visualization of document space.

E17.083 Indexing (EPO):

This subclass is indented under subclass E17.058. This subclass is substantially the same in scope as ECLA classification G06F17/30T1.

E17.084 Selection or weighting of terms for indexing (EPO):

This subclass is indented under subclass E17.083. This subclass is substantially the same in scope as ECLA classification G06F17/30T1E.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.094, for summarization.

E17.085 Physical indexing structures (EPO):

This subclass is indented under subclass E17.083. This subclass is substantially the same in scope as ECLA classification G06F17/30T1P.

E17.086 Inverted lists (EPO):

This subclass is indented under subclass E17.085. This subclass is substantially the same in scope as ECLA classification G06F17/30T1P1.

E17.087 Trees (**EPO**):

This subclass is indented under subclass E17.085. This subclass is substantially the same in scope as ECLA classification G06F17/30T1P3.

E17.088 Index managing details (EPO):

This subclass is indented under subclass E17.085. This subclass is substantially the same in scope as ECLA classification G06F17/30T1P9.

E17.089 Clustering or classification (EPO):

This subclass is indented under subclass E17.058. This subclass is substantially the same in scope as ECLA classification G06F17/30T4.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.095, for manual classification.

E17.09 Into predefined classes (EPO):

This subclass is indented under subclass E17.089. This subclass is substantially the same in scope as ECLA classification G06F17/30T4C.

E17.091 Including class or cluster creation or modification (EPO):

This subclass is indented under subclass E17.089. This subclass is substantially the same in scope as ECLA classification G06F17/30T4M.

E17.092 Including cluster or class visualization or browsing (EPO):

This subclass is indented under subclass E17.089. This subclass is substantially the same in scope as ECLA classification G06F17/30T4V.

E17.093 Browsing or visualization (EPO):

This subclass is indented under subclass E17.058. This subclass is substantially the same in scope as ECLA classification G06F17/30T5.

E17.094 Summarization for human users (EPO):

This subclass is indented under subclass E17.093. This subclass is substantially the same in scope as ECLA classification G06F17/30T5S.

E17.095 Based on associated metadata or manual classification, e.g., bibliographic data, etc. (EPO):

This subclass is indented under subclass E17.058. This subclass is substantially the same in scope as ECLA classification G06F17/30T6.

E17.096 Using identifiers, e.g., barcodes, radio frequency identifications, etc. (EPO):

This subclass is indented under subclass E17.095. This subclass is substantially the same in scope as ECLA classification G06F17/30T6A.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.113, for URLs.

E17.097 Using citations (EPO):

This subclass is indented under subclass E17.095. This subclass is substantially the same in scope as ECLA classification G06F17/30T6C.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.013, for hypermedia.

E17.098 Creation of semantic tools (EPO):

This subclass is indented under subclass E17.058. This subclass is substantially the same in scope as ECLA classification G06F17/30T8.

E17.099 Ontology (EPO):

This subclass is indented under subclass E17.098. This subclass is substantially the same in scope as ECLA classification G06F17/30T8G.

E17.1 Thesaurus (EPO):

This subclass is indented under subclass E17.098. This subclass is substantially the same in scope as ECLA classification G06F17/30T8T.

E17.101 Of audio data (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30U.

E17.102 Based on associated metadata, e.g., bibliographic data, images associated with audio data, etc. (EPO):

This subclass is indented under subclass E17.101. This subclass is substantially the same in scope as ECLA classification G06F17/30U6.

E17.103 Wherein the metadata is a transcript of the audio data (EPO):

This subclass is indented under subclass E17.102. This subclass is substantially the same in scope as ECLA classification G06F17/30U6T.

E17.104 Processing sequentially ordered data, e.g., alpha-numerically ordered, etc. (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30V.

E17.105 Binary access (EPO):

This subclass is indented under subclass E17.104. This subclass is substantially the same in scope as ECLA classification G06F17/30V2.

E17.106 Sequential access (EPO):

This subclass is indented under subclass E17.104. This subclass is substantially the same in scope as ECLA classification G06F17/30V3.

E17.107 Retrieval from the Internet, e.g., browsers, etc. (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30W.

E17.108 By querying, e.g., search engines or meta-search engines, crawling techniques, push systems, etc. (EPO):

This subclass is indented under subclass E17.107. This subclass is substantially the same in scope as ECLA classification G06F17/30W1.

E17.109 With filtering and personalization (EPO):

This subclass is indented under subclass E17.108. This subclass is substantially the same in scope as ECLA classification G06F17/30W1F.

E17.11 Spatially dependent indexing and retrieval, e.g., location dependent results to queries, etc. (EPO):

This subclass is indented under subclass E17.108. This subclass is substantially the same in scope as ECLA classification G06F17/30W1S.

E17.111 By navigation, e.g., using categorized browsing, portals, synchronized browsing, visual networks of documents, virtual worlds or tours, etc. (EPO):

This subclass is indented under subclass E17.107. This subclass is substantially the same in scope as ECLA classification G06F17/30W3.

E17.112 By using information identifiers, e.g., encoding URL in specific indicia, browsing history, etc. (EPO):

This subclass is indented under subclass E17.107. This subclass is substantially the same in scope as ECLA classification G06F17/30W5.

E17.113 By using bar codes (EPO):

This subclass is indented under subclass E17.112. This subclass is substantially the same in scope as ECLA classification G06F17/30W5B.

E17.114 Bookmark management (EPO):

This subclass is indented under subclass E17.112. This subclass is substantially the same in scope as ECLA classification G06F17/30W5K.

E17.115 URL specific, e.g., using aliases, detecting broken or misspelled links, etc. (EPO):

This subclass is indented under subclass E17.112. This subclass is substantially the same in scope as ECLA classification G06F17/30W5L.

E17.116 Web site content organization and management, e.g., publishing, automatic linking or maintaining pages, etc. (EPO):

This subclass is indented under subclass E17.107. This subclass is substantially the same in scope as ECLA classification G06F17/30W7.

E17.117 Access to data in other repository systems, e.g., legacy data or dynamic Web page generation, etc. (EPO):

This subclass is indented under subclass E17.116. This subclass is substantially the same in scope as ECLA classification G06F17/30W7L.

E17.118 Document structures and storage, e.g., HTML extensions, etc. (EPO):

This subclass is indented under subclass E17.116. This subclass is substantially the same in scope as ECLA classification G06F17/30W7S.

E17.119 Browsing optimization (EPO):

This subclass is indented under subclass E17.107. This subclass is substantially the same in scope as ECLA classification G06F17/30W9.

E17.12 Of access to content, e.g., by caching, etc. (EPO):

This subclass is indented under subclass E17.119. This subclass is substantially the same in scope as ECLA classification G06F17/30W9C.

E17.121 Optimizing the visualization of content, e.g., distillation of HTML documents, etc. (EPO):

This subclass is indented under subclass E17.119. This subclass is substantially the same in scope as ECLA classification G06F17/30W9V.

E17.122 Of semistructured data, the underlying structure being taken into account, e.g., mark-up language structure data, etc. (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30X.

E17.123 Indexing, e.g., of XML tags, etc. (EPO):

This subclass is indented under subclass E17.122. This subclass is substantially the same in scope as ECLA classification G06F17/30X1.

E17.124 Mapping or conversion (EPO):

This subclass is indented under subclass E17.122. This subclass is substantially the same in scope as ECLA classification G06F17/30X3.

E17.125 Mapping to a database (EPO):

This subclass is indented under subclass E17.124. This subclass is substantially the same in scope as ECLA classification G06F17/30X3D.

E17.126 Mark-up to mark-up conversion (EPO):

This subclass is indented under subclass E17.124. This subclass is substantially the same in scope as ECLA classification G06F17/30X3M.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E17.121, for conversion for visualization in web browsing.

E17.127 XML native databases, structures and querying (EPO):

This subclass is indented under subclass E17.122. This subclass is substantially the same in scope as ECLA classification G06F17/30X7.

E17.128 Query formulation (EPO):

This subclass is indented under subclass E17.127. This subclass is substantially the same in scope as ECLA classification G06F17/30X7F.

E17.129 Query processing (EPO):

This subclass is indented under subclass E17.127. This subclass is substantially the same in scope as ECLA classification G06F17/30X7P.

E17.13 Query translation (EPO):

This subclass is indented under subclass E17.129. This subclass is substantially the same in scope as ECLA classification G06F17/30X7P2.

E17.131 Query optimization (EPO):

This subclass is indented under subclass E17.129. This subclass is substantially the same in scope as ECLA classification G06F17/30X7P3.

E17.132 Query execution (EPO):

This subclass is indented under subclass E17.129. This subclass is substantially the same in scope as ECLA classification G06F17/30X7P4.

PROJECT Y-7121	D-13
----------------	------

E17.133 Results presentation (EPO):

This subclass is indented under subclass E17.127. This subclass is substantially the same in scope as ECLA classification G06F17/30X7V.

E17.134 Details of database functions independent of the retrieved data type (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification G06F17/30Z.

E17.135 Querying (EPO):

This subclass is indented under subclass E17.134. This subclass is substantially the same in scope as ECLA classification G06F17/30Z2.

E17.136 Query formulation (EPO):

This subclass is indented under subclass E17.135. This subclass is substantially the same in scope as ECLA classification G06F17/30Z2F.

E17.137 Using system suggestions (EPO):

This subclass is indented under subclass E17.136. This subclass is substantially the same in scope as ECLA classification G06F17/30Z2F1.

E17.138 Using search space presentation or visualization, e.g. category or range presentation and selection, etc. (EPO):

This subclass is indented under subclass E17.137. This subclass is substantially the same in scope as ECLA classification G06F17/30Z2F1V.

E17.139 Natural language query formulation or dialogue systems (EPO):

This subclass is indented under subclass E17.136. This subclass is substantially the same in scope as ECLA classification G06F17/30Z2F4.

E17.14 Query processing (EPO):

This subclass is indented under subclass E17.135. This subclass is substantially the same in scope as ECLA classification G06F17/30Z2P.

E17.141 Presentation or visualization of query results (EPO):

This subclass is indented under subclass E17.135. This subclass is substantially the same in scope as ECLA classification G06F17/30Z2V.

E17.142 Browsing or visualization (EPO):

This subclass is indented under subclass E17.134. This subclass is substantially the same in scope as ECLA classification G06F17/30Z5.

E17.143 Retrieval based on associated metadata (EPO):

This subclass is indented under subclass E17.134. This subclass is substantially the same in scope as ECLA classification G06F17/30Z6.