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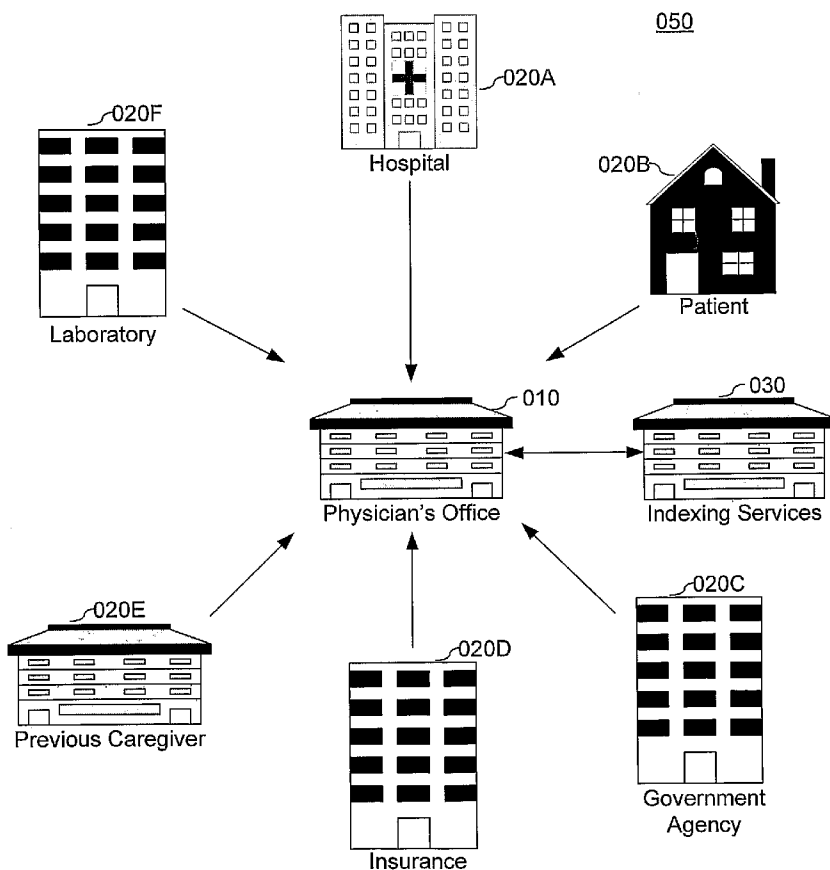
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR DATA INDEXING AND PROCESSING



(57) Abstract: Systems and methods are disclosed that allow for indexing, processing, or both of information from physical media or electronic media, which may be received from a plurality of sources. In embodiments, a document file may be matched using pattern matching methods and may include comparisons with a comparison reference database to improve or accelerate the indexing process. In embodiments, information may be presented to a user as potential matches thereby improving manual indexing processes. In embodiments, one or more additional actions may occur as part of the processing, including without limitation, association additional data with a document file, making observations from the document file, notifying individuals, creating composite messages, and billing events. In an embodiment, data from a document file may be associated with a key word, key phrase, or word frequency value that enables adaptive learning so that unindexed data may be automatically indexed based on user interaction history.

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<p><b>A. CLASSIFICATION OF SUBJECT MATTER</b>                  IPC(8): G06F 17/30 (2007.01)                  USPC: 707/6                  According to International Patent Classification (IPC) or to both national classification and IPC</p>														
<p><b>B. FIELDS SEARCHED</b></p> <p>Minimum documentation searched (classification system followed by classification symbols)                  IPC(8): G06F 17/30 (2007.01)                  USPC: 707/6</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                  USPC: 707/3, 6, 200, 205; 715/516, 968 (text search - see terms below)</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                  Electronic data base: PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Engineering); GoogleScholar                  Search Terms Used: database, index, fuzzy, threshold match, filter, filtering operation, reference database, comparison database, database filter, string array filter, user selection, observation, adaptive learning, billing, cost etc.</p>														
<p><b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Category*</th> <th style="width:70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width:20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>6,915,254 B1 (HEINZE et al.) 05 July 2005 (05.07.2005), entire document (especially Fig. 1)</td> <td>1-32</td> </tr> <tr> <td>A</td> <td>2003/0078899 A1 (SHANAHAN) 24 April 2003 (24.04.2003), entire document</td> <td>1-32</td> </tr> <tr> <td>A</td> <td>2002/0169764 A1 (KINCAID et al.) 14 November 2002 (14.11.2002), entire document</td> <td>1-32</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	6,915,254 B1 (HEINZE et al.) 05 July 2005 (05.07.2005), entire document (especially Fig. 1)	1-32	A	2003/0078899 A1 (SHANAHAN) 24 April 2003 (24.04.2003), entire document	1-32	A	2002/0169764 A1 (KINCAID et al.) 14 November 2002 (14.11.2002), entire document	1-32
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p>														
<p>* Special categories of cited documents:</p> <table style="width:100%;"> <tr> <td style="width:50%;"> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p> </td> <td style="width:50%;"> <p>“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>“&amp;” document member of the same patent family</p> </td> </tr> </table>			<p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>“&amp;” document member of the same patent family</p>										
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<p>Name and mailing address of the ISA/US                  Mail Stop PCT, Attn: ISA/US, Commissioner for Patents                  P.O. Box 1450, Alexandria, Virginia 22313-1450                  Facsimile No. 571-273-3201</p>		<p>Authorized officer:                  Lee W. Young                  PCT Helpdesk: 571-272-4300                  PCT OSP: 571-272-7774</p>												