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(54) **METHOD AND SYSTEM FOR PARSING NAVIGATION INFORMATION**

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(56) **References Cited**

U.S. PATENT DOCUMENTS

5,787,425	A	7/1998	Bigus	
5,796,633	A	8/1998	Burgess et al.	
5,864,871	A	1/1999	Kitain et al.	
5,899,992	A *	5/1999	Iyer et al.	707/1
5,905,985	A *	5/1999	Malloy et al.	707/100
5,930,786	A	7/1999	Carino et al.	
5,960,428	A *	9/1999	Lindsay et al.	707/2
5,987,135	A	11/1999	Johnson et al.	
6,000,832	A *	12/1999	Franklin et al.	235/379
6,003,024	A *	12/1999	Bair et al.	707/102
6,078,924	A	6/2000	Ainsbury et al.	
6,105,020	A *	8/2000	Lindsay et al.	707/2
6,112,238	A	8/2000	Boyd et al.	
6,151,584	A	11/2000	Papierniak et al.	
6,151,601	A	11/2000	Papierniak et al.	
6,161,103	A *	12/2000	Rauer et al.	707/4
6,178,418	B1 *	1/2001	Singer	370/255
6,189,004	B1 *	2/2001	Rassen et al.	707/3
6,192,357	B1 *	2/2001	Krychniak	707/100
6,192,364	B1	2/2001	Baclawski	
6,199,063	B1 *	3/2001	Colby et al.	707/102
6,205,447	B1 *	3/2001	Malloy	707/100
6,212,524	B1 *	4/2001	Weissman et al.	707/101
6,233,573	B1 *	5/2001	Bair et al.	707/102
6,341,290	B1	1/2002	Lombardo et al.	
6,408,292	B1 *	6/2002	Bakalash et al.	707/100
6,460,037	B1	10/2002	Weiss et al.	

6,470,386	B1	10/2002	Combar et al.	
6,477,564	B1	11/2002	Freyssinet et al.	
6,480,836	B1 *	11/2002	Colby et al.	707/3
6,484,179	B1 *	11/2002	Roccaforte	707/102
6,502,132	B1	12/2002	Kumano et al.	
6,553,416	B1	4/2003	Chari et al.	
6,665,682	B1 *	12/2003	DeKimpe et al.	707/101
2002/0188584	A1	12/2002	Ghannam et al.	

OTHER PUBLICATIONS

Ralph Kimball, *The Data Warehouse Toolkit*, John Wiley & Sons, Inc. 1996, pp. 89-142.*

U.S. patent application Ser. No. 09/876,845, Uppala et al., filed Jun. 6, 2001.

U.S. patent application Ser. No. 09/876,844, Fayyad et al., filed Jun. 6, 2001.

U.S. patent application Ser. No. 09/876,837, Fayyad et al., filed Jun. 6, 2001.

U.S. patent application Ser. No. 10/320,171, Nareddy et al., filed Dec. 16, 2002.

U.S. patent application Ser. No. 10/320,288, Nareddy et al., filed Dec. 16, 2002.

U.S. patent application Ser. No. 10/320,091, Nareddy et al., filed Dec. 16, 2002.

U.S. patent application Ser. No. 10/320,092, Nareddy et al., filed Dec. 16, 2002.

* cited by examiner

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(57) **ABSTRACT**

A method and system for providing customers with access to and analysis of event data is provided. The event data may be stored in log files and supplemented with data from other sources, such as product databases and customer invoices. A data warehouse system collects customer data from the customer web sites and stores the data at a data warehouse server. The data warehouse server interacts with the customer servers to collect to the customer data on a periodic basis. The data warehouse server may provide instructions to the customer servers identifying the customer data that is to be uploaded to the data warehouse server. When the data warehouse server receives customer data, it converts the customer data into a format that is more conducive to processing by decision support system applications by which customers can analyze their data.

30 Claims, 19 Drawing Sheets