



US006366910B1

(12) **United States Patent**  
**Rajaraman et al.**

(10) **Patent No.:** **US 6,366,910 B1**  
(45) **Date of Patent:** **Apr. 2, 2002**

(54) **METHOD AND SYSTEM FOR GENERATION OF HIERARCHICAL SEARCH RESULTS**

6,029,195 A \* 2/2000 Herz ..... 709/219  
6,038,560 A \* 3/2000 Wical ..... 707/5  
6,195,652 B1 \* 2/2001 Fish ..... 707/2

(75) Inventors: **Anand Rajaraman**, Seattle; **Nigel Green**, Bellevue, both of WA (US)

\* cited by examiner

(73) Assignee: **Amazon.com, Inc.**, Seattle, WA (US)

*Primary Examiner*—Wayne Amsbury  
(74) *Attorney, Agent, or Firm*—Perkins Coie LLP

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(57) **ABSTRACT**

A method and system for querying hierarchically classified data. The system first receives a query request and then identifies classifications of the data that may satisfy the received query request. The system then displays the identified classifications. In response to selection of a displayed classification, the system displays sub-classifications when the selected classification has sub-classifications and displays the data within the classification when the selected classification has no sub-classifications. In another aspect, the system generates search results for items that are hierarchically classified. For classifications within the hierarchy of classifications, the system generates a search entry containing terms describing the items within that classification. The system then receives a search criteria. The system selects as initial search results those search entries whose terms most closely match the received search criteria. The system then adjusts the initial search results based on the hierarchy of classifications. This adjustment may include removing sub-classifications of a classification that is in the initial search results or adding a parent classification to replace multiple child classifications in the initial search results.

(21) Appl. No.: **09/206,774**

(22) Filed: **Dec. 7, 1998**

(51) **Int. Cl.**<sup>7</sup> ..... **G06F 17/30**

(52) **U.S. Cl.** ..... **707/5**

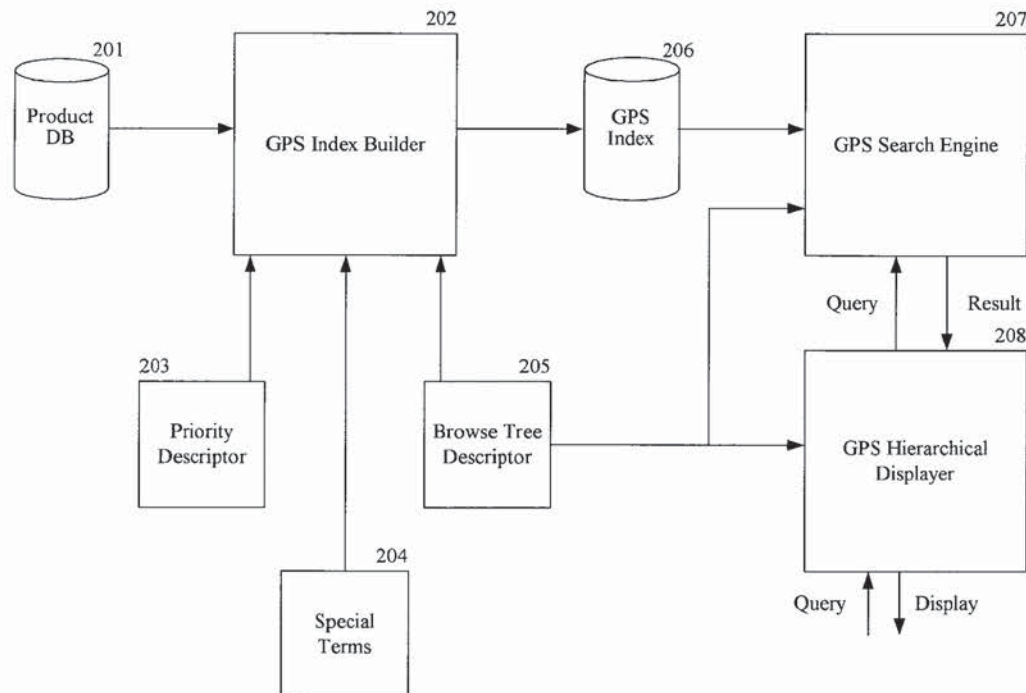
(58) **Field of Search** ..... **707/5**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,062,074 A	*	10/1991	Kleinberger	707/5
5,251,131 A	*	10/1993	Massand et al.	704/9
5,442,778 A	*	8/1995	Pedersen et al.	707/5
5,488,725 A	*	1/1996	Turtle et al.	707/5
5,722,418 A	*	3/1998	Bro	128/732
5,787,422 A	*	7/1998	Tukey et al.	707/5
5,802,493 A	*	9/1998	Sherflott et al.	705/1
5,835,905 A	*	11/1998	Pirolli et al.	707/3
5,848,409 A	*	12/1998	Ahn	707/3
5,897,638 A	*	4/1999	Lasser et al.	707/102
5,920,854 A	*	7/1999	Kirsch et al.	707/3
5,987,460 A	*	11/1999	Niwa et al.	707/6
6,011,862 A	*	1/2000	Doi et al.	382/132

**59 Claims, 17 Drawing Sheets**



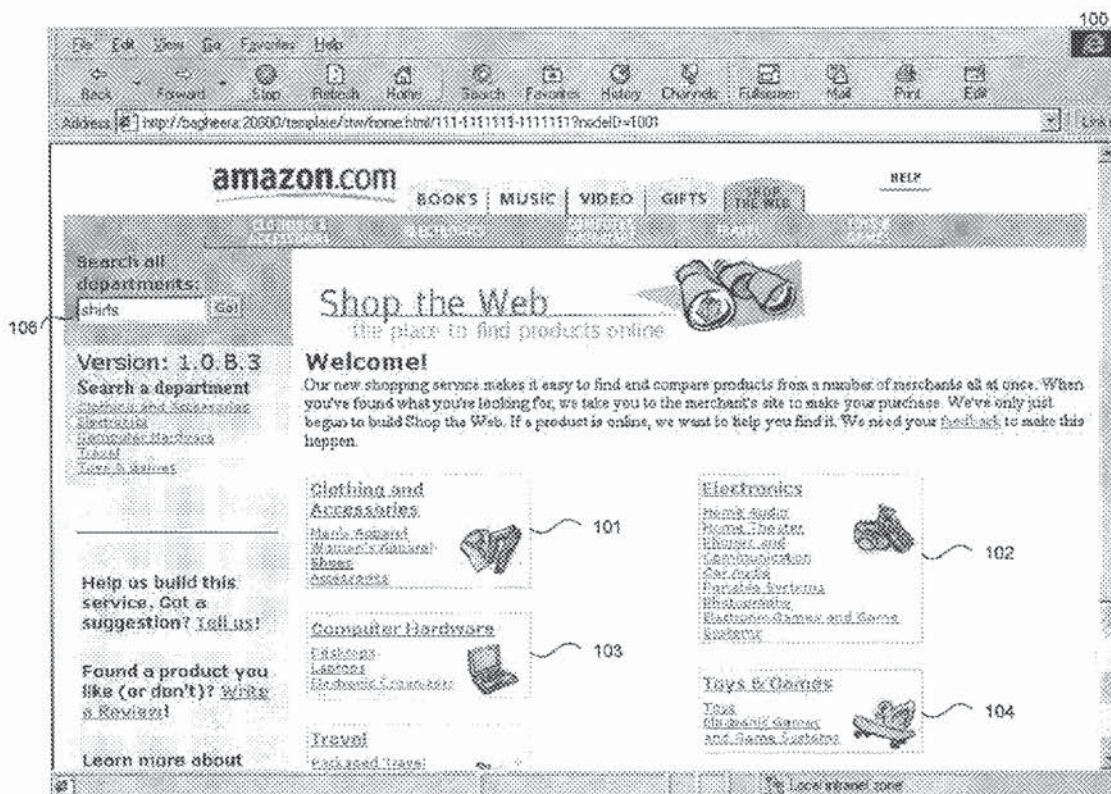


Fig. 1A

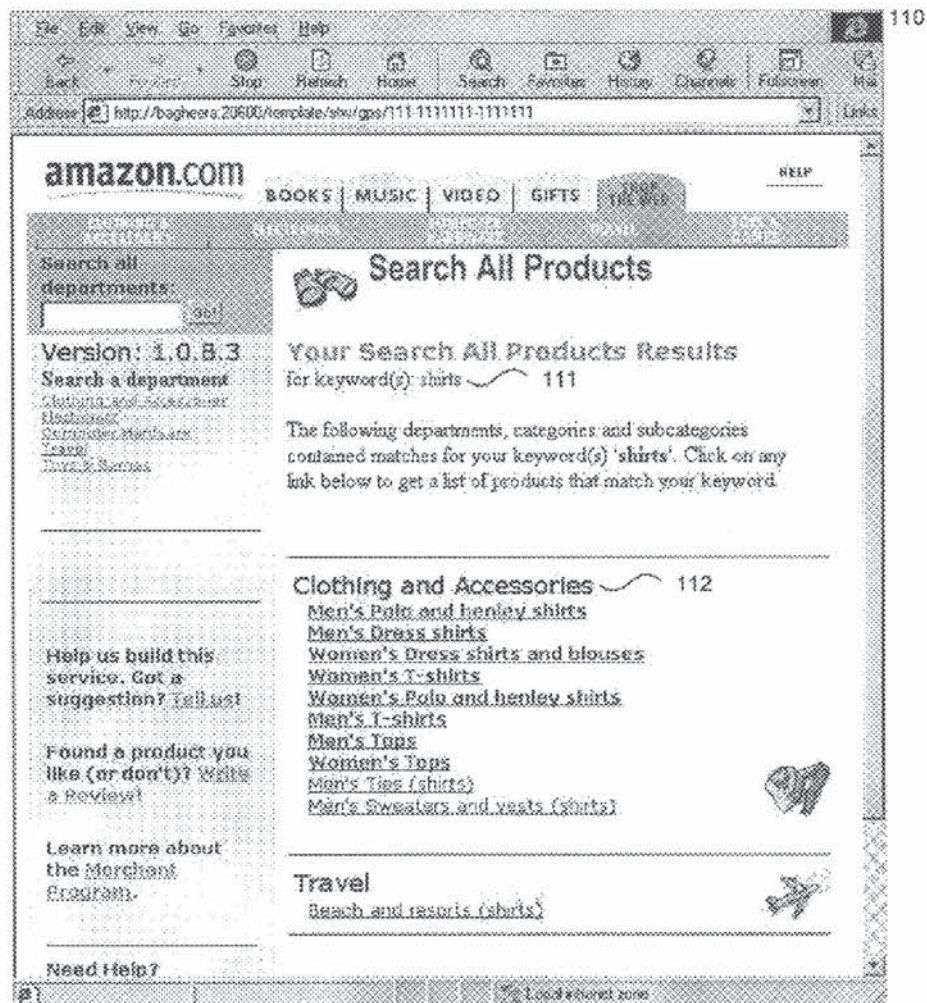


Fig. 1B

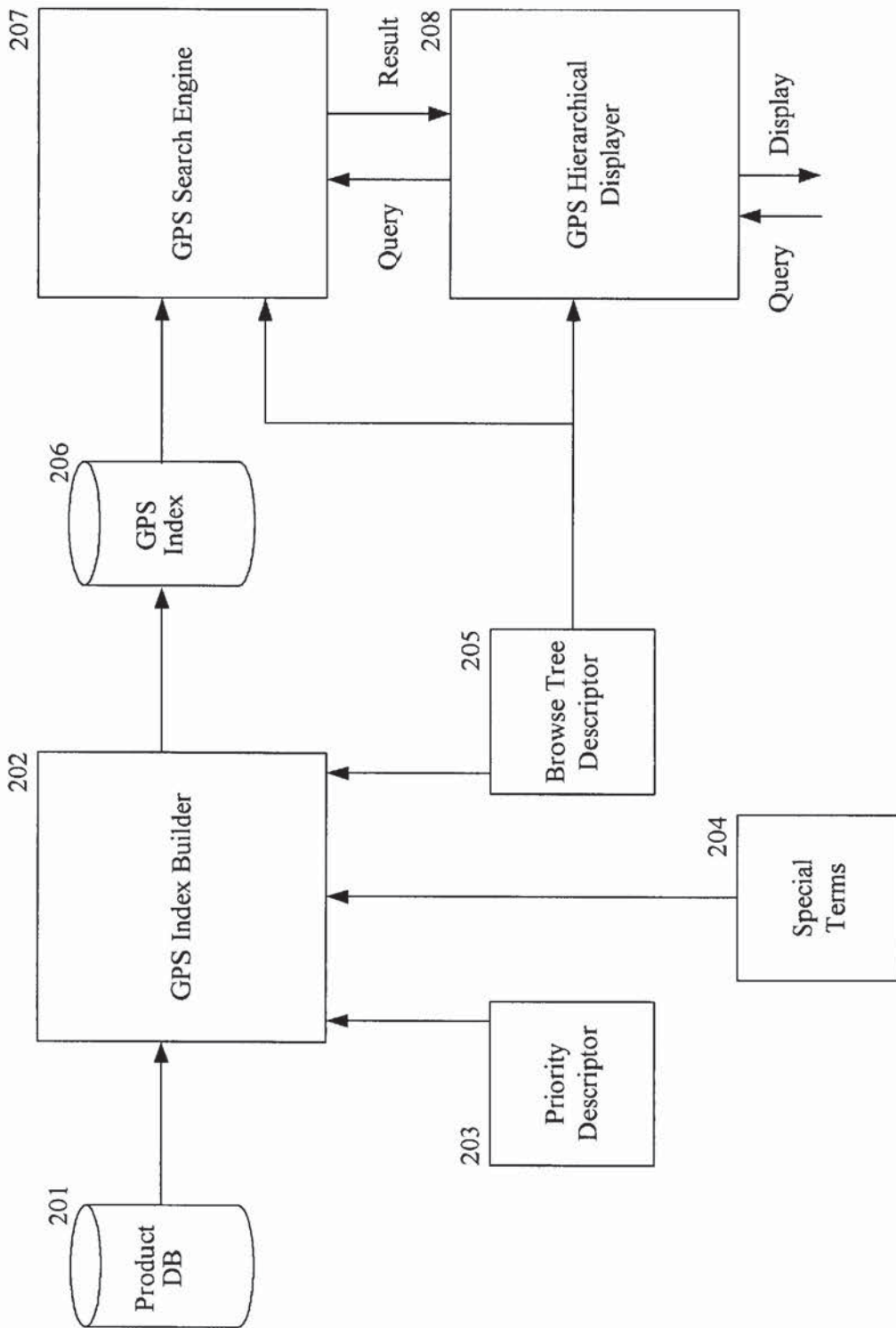


Fig. 2

301

Travel Table

ID	Category	Subcategory	Name	Destination	Orig dest...	Provider	Description
	31	237	Hawaii Honeymoon	Maui	Seattle	Hawaii Travel	~
	31	240	Australian Tour	Australia	Seattle	Outback Venture	~
	31	240	New Zealand Tour	New Zealand	Seattle	Outback Venture	~

Fig. 3A

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