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Rajaraman et al.

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

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- (22) Filed: Dec. 7, 1998

(56) References Cited

U.S. PATENT DOCUMENTS

5,062,074	A	'n	10/1991	Kleinberger	707/5
5,251,131		10	10/1993	Massand et al.	704/9
5,442,778		*	8/1995		707/5
5,488,725		16	1/1996	Turtle et al	707/5
5,722,418	A	*	3/1998	Bro 13	28/732
5,787,422	A	tic.	7/1998	Tukey et al	
5,802,493	A	di.	9/1998	Sherflott et al	705/1
5,835,905	A	40	11/1998	Pirolli et al	707/3
5,848,409	A	alt:	12/1998	Ahn	707/3
5,897,638	A	4	4/1999	Lasser et al 70	07/102
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 38	82/132

6,029,195	A	181	2/2000	Herz	709/219
6,038,560	A	*	3/2000	Wical	. 707/5
6.195,652	BI	*	2/2001	Fish	707/2

^{*} cited by examiner

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(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.

59 Claims, 17 Drawing Sheets

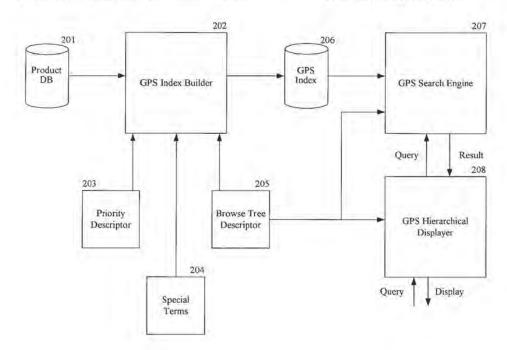








Fig. 1A

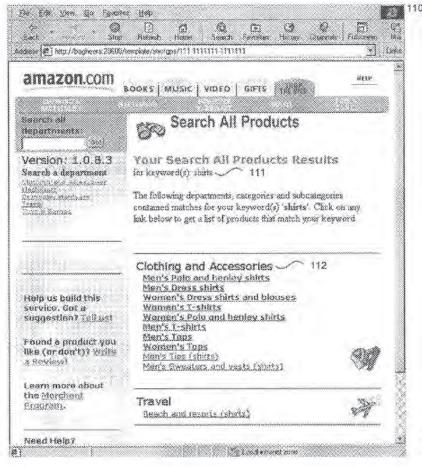
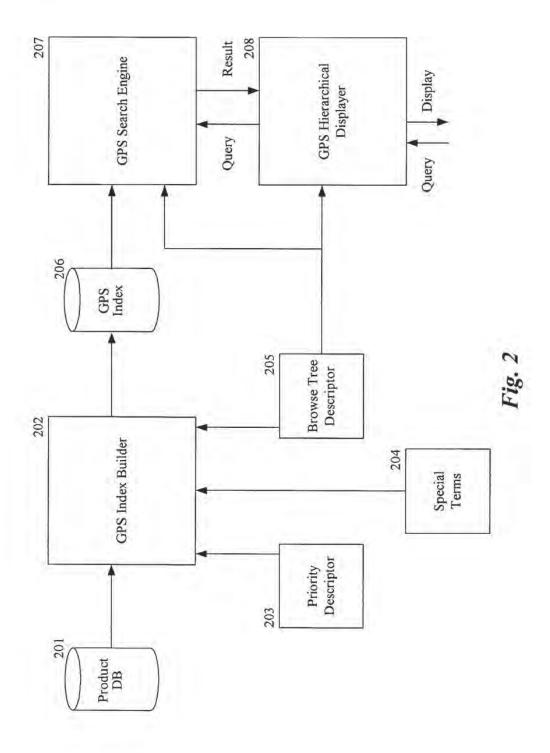


Fig. 1B





Subcategory	237 Hor	240 Au	240 New
Name	Hawaii Honeymoon	Australian Tour	v Zealand
Destination	Maui	Australia	New Zealand New Zealand
Orig dest	Seattle	Seattle	Seattle
Provider	Hawaii Travel	Outback Venture	Outback
Description	{	{	{

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