

### US005948040A

# United States Patent [19]

DeLorme et al.

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[54] TRAVEL RESERVATION INFORMATION AND PLANNING SYSTEM

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[21] Appl. No.: **08/797,471** 

[22] Filed: Feb. 6, 1997

### Related U.S. Application Data

Continuation-in-part of application No. 08/661,600, Jun. 11, 1996, Pat. No. 5,802,492, which is a continuation-in-part of application No. 08/381,214, Jan. 31, 1995, Pat. No. 5,559, 707, which is a continuation-in-part of application No. 08/265,327, Jun. 24, 1994, and a continuation-in-part of application No. 08/521,828, Aug. 31, 1995.

**Int. Cl.**<sup>6</sup> ...... **G06F 19/00**; G01C 21/00

**U.S. Cl.** ...... **701/201**; 701/208; 701/211; [52] 340/990; 705/5

Field of Search ...... 701/201, 202,

701/207, 208, 209, 211, 212, 213; 705/5, 6; 340/988, 989, 990, 995

#### [56] References Cited

### U.S. PATENT DOCUMENTS

4,359,631	11/1982	Lockwood et al 360/12
4,862,357	8/1989	Ahlstrom et al 705/6
4,926,336	5/1990	Yamada 364/444
5,021,953	6/1991	Webber et al 705/6
5,172,321	12/1992	Ghaem et al 701/202
5,191,523	3/1993	Whitesage 705/6
5,208,756	5/1993	Song
		<del>-</del>

(List continued on next page.)

### OTHER PUBLICATIONS

Makulowich, John, "Traveling by Virtual Reservation," Washington Technology, Jan. 23, 1997, p. 42.

Knecht, Bruce, G., "Microsoft Puts Newspapers in Highanxiety.com," The Wall Street Journal, Jul. 15, 1996, pp. B1, B10.

"InforTravel Expands Service," Business Geographics, vol. 4, No. 6, Jun., 1996, p. 13.

DelRosso, Laura, "Firm Customizes Internet Res Link," Travel Weekly, vol. 55, No. 26, Apr. 1, 1996, pp. 43–44, 47.

"Casto Travel's Resource Library," www.casto.com.

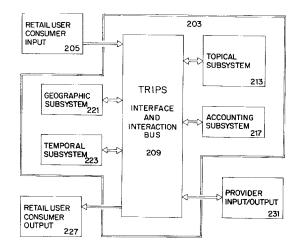
"Sunnyside Computing, Inc.," www.itn.net.

Primary Examiner—Tan Nguyen Attorney, Agent, or Firm-Pierce Atwood; Chris A. Caseiro

#### [57] **ABSTRACT**

Computerized travel reservation information and planning system that generates "map ticket" output in various media, for guidance and transactions en route. Such print or electronic documents can include bar or alphanumeric codes for automated recognition and/or access. WHERE?, WHO/ WHAT?, WHEN? and HOW? menus enable flexible user inquiries accessing selectable geographic, topical, temporal and transactional data records and relational processing. Sub-menus provide further capabilities: e.g. routing, topical searching; searches of events calendars, almanacs, appointment books, related itinerary scheduling; trip budgeting issues, plus travel arrangement availabilities or other goods/ services offers. Online communications links access updated or supplemental information on places, times, topics and other provider goods/service offers. Online computer-aided routing system enables input of selectable travel origin, destination, and waypoints to compute travel routes, available transportation services, costs, options, and schedules. A point-of-interest database lets users pick types of attractions or accommodations within a user-selected region around routes of travel. Users engage in an iterative planning process, revising or editing travel plans, previewing travelogs of alternate routes, selecting point of interest parameters, comparing times and costs of transportation options, in order to achieve a satisfactory travel plan. The system provides printed or electronic output that may include any one or more of text itinerary, ordered set of travel maps, customized collection of information on points of interest information and a selected array of valid reservation confirmations, tickets and/or discount coupons coded with elements for automated recognition and processing. Mobile users, including GPS-linked users, can access the system via wireless communication units.

### 80 Claims, 14 Drawing Sheets



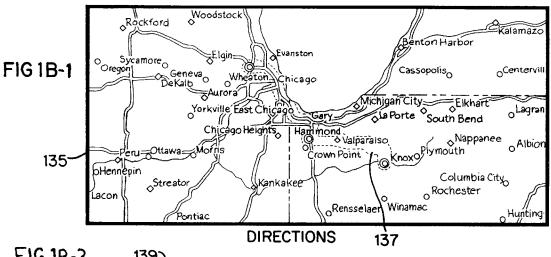


# 5,948,040

# Page 2

U	J.S. PAT	TENT DOCUMENTS	5,359,527	10/1994	Takanabe et al 364/449
5 021 504	7/1002	NI	5,369,588	11/1994	Hayami et al 701/209
		Nimura et al	5,422,809	6/1995	Griffin et al 705/5
		Garback	5,444,618	8/1995	Seki et al
		Lefebvre	5,519,619	5/1996	Seda 701/201
		Martin et al	5,537,324	7/1996	Nimura et al
		Webber et al	5,587,911	12/1996	Asano et al
		Sato et al			Goheen
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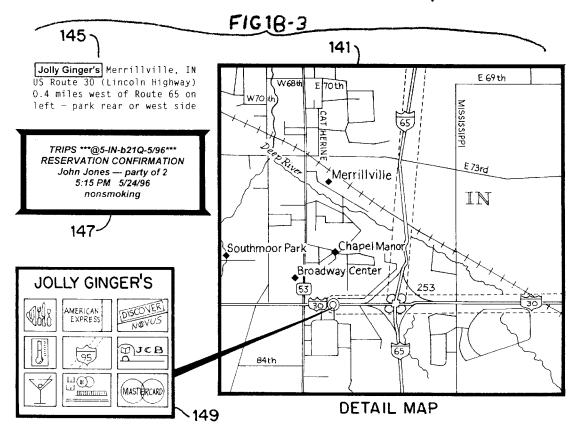




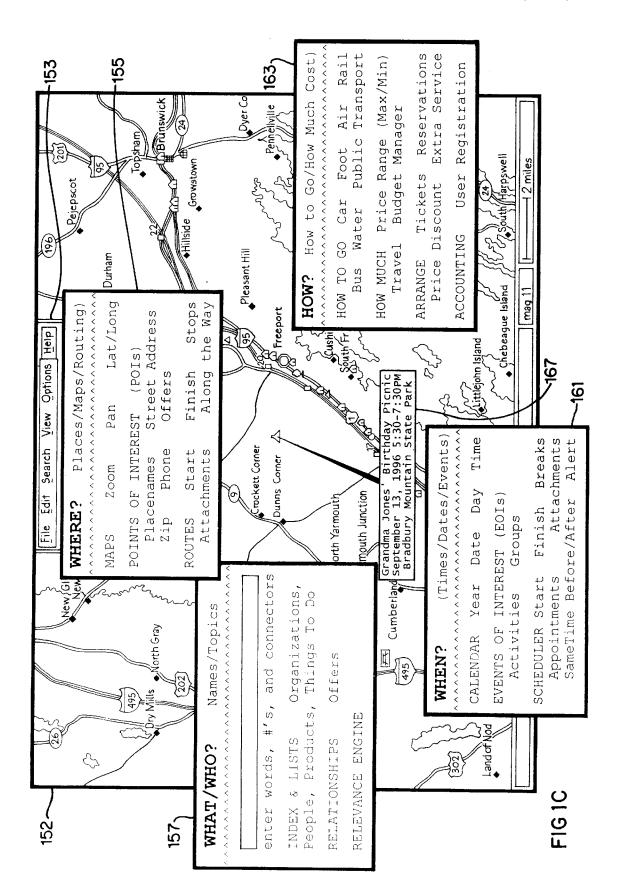
**FIG 1B-2** 1397

		Road	Dir	Near	Exit #	Time	Dist	Mi
•		START - Knox, IN					1	
П	1	US 35 (SR 8, CR 400 E, Heat	N	Knox, IN	ļ	0:00	0.0	0.2
Ш	2	US 35 (SR 8, CR 400 E)	N	Knox, IN		0:00	0.1	6
II	3	US 30	w			0:08	6.4	38
Ø		STOP - Jolly Ginger's, IN				1		
П	4	US 30 (Lincoln Hwy)	E	Merrillville, IN	•	0:59	44.5	0.4
11	5	I-65	N	Merrillville, IN	253	1:00	44.9	9
Ш	6	I-90 (East-West Toll Rd)	NW	,	17 261	1:09	54.1	45
Ш	7	I-190	w		78	2:00	99.6	3
		FINISH - Chicago O'Hare Intl (	(ORD), I	П				

TOTAL DISTANCE: 103 MI, TOTAL TIME: 2:03









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