



US007650234B2

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

(10) **Patent No.:** **US 7,650,234 B2**
(45) **Date of Patent:** **Jan. 19, 2010**

(54) **TECHNIQUE FOR EFFECTIVE NAVIGATION
BASED ON USER PREFERENCES**

(75) Inventors: **Michael L. Obradovich**, San Clemente, CA (US); **John D. Pirtle**, Silverado, CA (US); **Steven W. Schebesch**, Aliso Viejo, CA (US)

(73) Assignee: **American Calcar Inc.**, Las Vegas, NV (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 2 days.

(21) Appl. No.: **11/971,193**

(22) Filed: **Jan. 8, 2008**

(65) **Prior Publication Data**

US 2008/0120024 A1 May 22, 2008

Related U.S. Application Data

(63) Continuation of application No. 11/146,599, filed on Jun. 7, 2005, now Pat. No. 7,522,992, which is a continuation of application No. 10/957,042, filed on Oct. 1, 2004, now Pat. No. 6,993,429, which is a continuation of application No. 10/382,687, filed on Mar. 6, 2003, now Pat. No. 6,829,532, which is a continuation of application No. 09/830,064, filed as application No. PCT/US00/27270 on Oct. 4, 2000, now Pat. No. 6,542,812.

(60) Provisional application No. 60/160,326, filed on Oct. 19, 1999.

(51) **Int. Cl.**
G01C 21/34 (2006.01)

(52) **U.S. Cl.** **701/207; 701/25**

(58) **Field of Classification Search** **701/200-202, 701/117-119, 207-209, 25; 340/988, 989**

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,207,609 A 6/1980 Luiz et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0 829 704 A2 3/1998

(Continued)

OTHER PUBLICATIONS

Eleftheriadis, et al. "User Profile Identification In Future Mobile Telecommunications Systems", IEEE Network, IEEE Inc. New York, U.S. vol. 8, No. 5, Sep./Oct. 1994 (p. 33-39).

(Continued)

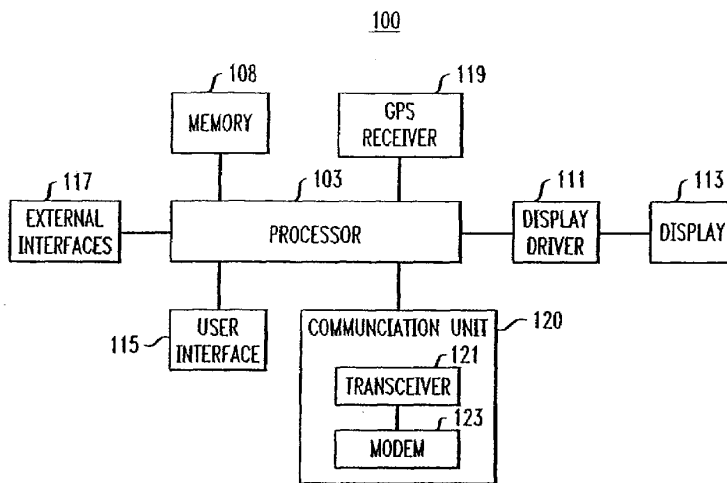
Primary Examiner—Yonel Beaulieu

(74) *Attorney, Agent, or Firm*—Klein, O'Neill & Singh, LLP

(57) **ABSTRACT**

A navigation device utilizes stored user profiles to navigate a user who may be driving in a vehicle, on foot, or in other mode of transportation. Each user profile corresponds to one of the user's personae. For example the user business profile corresponding to the user's business persona may be different from the user personal profile corresponding to the user's personal persona. The navigation device provides the user with a navigated route, together with information concerning the favorite facilities and events surrounding the navigated route, which satisfy the preferences in a selected user profile. Blockages may also be established using the device to avoid selected areas, or to block transmission of selected information.

30 Claims, 8 Drawing Sheets



U.S. PATENT DOCUMENTS					
			5,717,749	A	2/1998 Sneed, Jr. et al.
4,350,970	A	9/1982 von Tomkewitsch	5,719,936	A	2/1998 Hillenmayer
4,521,857	A	6/1985 Reynolds, III	5,720,037	A	2/1998 Biliris et al.
4,792,803	A	12/1988 Madnick et al.	5,724,316	A	3/1998 Brunts
4,812,843	A	3/1989 Champion, III et al.	5,727,053	A	3/1998 Sizer, II et al.
4,977,509	A	12/1990 Pitchford et al.	5,731,997	A	3/1998 Manson et al.
5,023,934	A	6/1991 Wheelless	5,742,509	A	4/1998 Goldberg et al.
5,043,736	A	8/1991 Darnell et al.	5,745,855	A	4/1998 Futamura
5,075,693	A	12/1991 McMillan et al.	5,748,106	A	5/1998 Schoenian et al.
5,119,504	A	6/1992 Durboraw, III	5,754,938	A	5/1998 Herz et al.
5,124,915	A	6/1992 Krenzel	5,760,742	A	6/1998 Branch et al.
5,127,674	A	7/1992 Lamphere et al.	5,774,070	A	6/1998 Rendon
5,157,614	A	10/1992 Kashiwazaki et al.	5,774,825	A	6/1998 Reynolds
5,164,904	A	11/1992 Sumner	5,774,827	A	6/1998 Smith, Jr. et al.
5,189,632	A	2/1993 Paajanen et al.	5,781,150	A	7/1998 Norris
5,225,843	A	7/1993 Thompson	5,786,789	A	7/1998 Janky
5,235,633	A	8/1993 Dennison et al.	5,790,974	A	8/1998 Tognazzini
5,265,024	A	11/1993 Crabill et al.	5,794,174	A	8/1998 Janky et al.
5,267,042	A	11/1993 Tsuchiya et al.	5,802,492	A	9/1998 DeLorme et al.
5,272,638	A	12/1993 Martin et al.	5,809,247	A	9/1998 Richardson et al.
5,295,064	A	3/1994 Malec et al.	5,815,683	A	9/1998 Vogler
5,299,132	A	3/1994 Wortham	5,819,227	A	10/1998 Obuchi
5,334,974	A	8/1994 Simms et al.	5,852,810	A	12/1998 Sotiroff et al.
5,335,276	A	8/1994 Thompson et al.	5,864,305	A	1/1999 Rosenquist
5,406,493	A	4/1995 Goto et al.	5,908,464	A	6/1999 Kishigami et al.
5,412,573	A	5/1995 Barnea et al.	5,917,405	A	6/1999 Joao
5,420,592	A	5/1995 Johnson	5,919,246	A	7/1999 Waizmann et al.
5,432,841	A	7/1995 Rimer	5,926,118	A	7/1999 Hayashida et al.
5,450,329	A	9/1995 Tanner	5,929,774	A	7/1999 Charlton
5,479,351	A	12/1995 Woo et al.	5,938,721	A	8/1999 Dussell et al.
5,479,482	A	12/1995 Grimes	5,946,626	A	8/1999 Foladare et al.
5,497,339	A	3/1996 Bernard	5,948,040	A	9/1999 DeLorme et al.
5,504,482	A	4/1996 Schreder	5,950,173	A	9/1999 Perkowski
5,504,684	A	4/1996 Lau et al.	5,963,956	A	10/1999 Smartt
5,517,193	A	5/1996 Allison et al.	5,982,298	A	11/1999 Lappenbusch et al.
5,519,403	A	5/1996 Bickley et al.	5,999,124	A	12/1999 Sheynblat
5,523,950	A	6/1996 Peterson	5,999,877	A	12/1999 Takahashi et al.
5,528,248	A	6/1996 Steiner et al.	6,021,371	A	2/2000 Fultz
5,528,493	A	6/1996 Potter	6,028,550	A	2/2000 Froeberg et al.
5,539,645	A	7/1996 Mandhyan et al.	6,035,253	A	3/2000 Hayashi et al.
5,543,789	A	8/1996 Behr et al.	6,040,824	A	3/2000 Maekawa et al.
5,544,061	A	8/1996 Morimoto et al.	6,041,311	A	3/2000 Chislenko et al.
5,555,286	A	9/1996 Tendler	6,047,327	A	4/2000 Tso et al.
5,559,520	A	9/1996 Barzegar et al.	6,073,075	A	6/2000 Kondou et al.
5,559,707	A	9/1996 DeLorme et al.	6,075,874	A	6/2000 Higashikubo et al.
5,572,204	A	11/1996 Timm et al.	6,087,965	A	7/2000 Murphy
5,579,535	A	11/1996 Orlen et al.	6,091,956	A	7/2000 Hollenberg
5,600,796	A	2/1997 Okamura et al.	6,092,076	A	7/2000 McDonough et al.
5,604,676	A	2/1997 Penzias	6,107,939	A	8/2000 Sorden
5,625,668	A	4/1997 Loomis et al.	6,107,944	A	8/2000 Behr et al.
5,625,884	A	4/1997 Gitlin et al.	6,119,066	A	9/2000 Sugiura et al.
5,627,547	A	5/1997 Ramaswamy et al.	6,122,506	A	9/2000 Lau et al.
5,627,549	A	5/1997 Park	6,124,825	A	9/2000 Eschenbach
5,630,068	A	5/1997 Vela et al.	6,127,945	A	10/2000 Mura-Smith
5,638,279	A	6/1997 Kishi et al.	6,128,624	A	10/2000 Papierniak
5,640,156	A	6/1997 Okuda et al.	6,131,066	A	10/2000 Ahrens et al.
5,642,285	A	6/1997 Woo et al.	6,131,067	A	10/2000 Girerd et al.
5,648,763	A	7/1997 Long	6,133,853	A	10/2000 Obradovich et al.
5,648,769	A	7/1997 Sato et al.	6,134,501	A	10/2000 Oumi
5,652,379	A	7/1997 Fukatani	6,141,610	A	10/2000 Rothert et al.
5,654,886	A	8/1997 Zereski, Jr. et al.	6,144,920	A	11/2000 Mikame
5,661,652	A	8/1997 Sprague et al.	6,147,598	A	11/2000 Murphy et al.
5,663,548	A	9/1997 Hayashi et al.	6,148,261	A	11/2000 Obradovich et al.
5,673,039	A	9/1997 Pietzsch et al.	6,154,745	A	11/2000 Kari et al.
5,675,732	A	10/1997 Majeti et al.	6,163,749	A	12/2000 McDonough et al.
5,677,837	A	10/1997 Reynolds	6,163,753	A	12/2000 Beckmann et al.
5,680,444	A	10/1997 Reeves	6,166,626	A	12/2000 Janky et al.
5,689,252	A	11/1997 Ayanoglu et al.	6,169,955	B1	1/2001 Fultz
5,694,514	A	12/1997 Evans et al.	6,173,231	B1	1/2001 Chojnacki
5,699,056	A	12/1997 Yoshida	6,182,067	B1	1/2001 Presnell et al.
			6,184,801	B1	2/2001 Janky

6,192,312 B1 2/2001 Hummelsheim
 6,192,314 B1 2/2001 Khavakh et al.
 6,199,013 B1 3/2001 O'Shea
 6,202,023 B1 3/2001 Hancock et al.
 6,208,934 B1 3/2001 Bechtolsheim et al.
 6,212,392 B1 4/2001 Fitch et al.
 6,212,470 B1 4/2001 Seymour et al.
 6,212,472 B1 4/2001 Nonaka et al.
 6,212,473 B1 4/2001 Stefan et al.
 6,212,550 B1 4/2001 Segur
 6,215,857 B1 4/2001 Kasiviswanathan
 6,215,993 B1 4/2001 Ulveland
 6,219,557 B1 4/2001 Havinis
 6,219,614 B1 4/2001 Uchigaki et al.
 6,219,694 B1 4/2001 Lazaridis et al.
 6,266,614 B1 7/2001 Alumbaugh
 6,292,743 B1 9/2001 Pu et al.
 6,321,158 B1 11/2001 DeLorme et al.
 6,321,160 B1 11/2001 Takahashi
 6,332,127 B1 12/2001 Bandera et al.
 6,334,087 B1 12/2001 Nakano et al.
 6,339,744 B1 1/2002 Hancock et al.
 6,374,237 B1 4/2002 Reese
 6,421,675 B1 7/2002 Ryan et al.
 6,427,121 B2 7/2002 Brodie
 6,466,862 B1 10/2002 DeKock et al.
 6,515,595 B1 2/2003 Obradovich et al.
 6,529,143 B2 3/2003 Mikkola et al.
 6,529,824 B1 3/2003 Obradovich et al.
 6,542,812 B1 4/2003 Obradovich et al.
 6,546,002 B1 4/2003 Kim
 6,574,734 B1 6/2003 Colson et al.
 6,639,550 B2 10/2003 Knockeart et al.
 6,680,694 B1 1/2004 Knockeart et al.
 6,707,421 B1 3/2004 Drury et al.
 6,745,188 B2 6/2004 Bradburn
 6,924,748 B2 8/2005 Obradovich et al.
 6,954,735 B1 10/2005 Djupsjobacka et al.
 7,236,100 B2 6/2007 Obradovich et al.

PCT Written Opinion for International Application No. PCT/US00/29520, filed Oct. 27, 2000, Written Opinion dated Aug. 28, 2001.
 Supplemental Search Report for European Patent Application No. 00972367.7, dated Jan. 9, 2003 and mailed Jan. 21, 2003 (4 pgs.).
 Office Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Office Action mailed Dec. 20, 2002 (31 pgs.).
 Final Office Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Final Office Action mailed Jul. 17, 2003 (14 pgs.).
 Advisory Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Advisory Action mailed Oct. 20, 2003 (3 pgs.).
 Office Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Office Action mailed Dec. 29, 2003 (10 pgs.).
 Final Office Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Final Office Action mailed Jun. 22, 2004 (14 pgs.).
 Office Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Office Action mailed Dec. 22, 2004 (13 pgs.).
 Final Office Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Final Office Action mailed Jun. 16, 2005 (11 pgs.).
 Office Communication entitled "Notice of Panel Decision from Pre-Appeal Brief Review" for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Office Communication mailed Jan. 12, 2006 (2 pgs.).
 Final Office Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Final Office Action mailed Mar. 21, 2006 (12 pgs.).
 Application as Filed Oct. 27, 2000 for "System and Method for User Navigation", inventor Michael L. Obradovich, Application No. 09/699,031 (specification 16 pgs.; claims 4 pgs.; abstract, drawings (16 pgs.).
 Amendment for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Amendment mailed Apr. 21, 2003 (10 pgs.).
 Response to Final Action for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Response mailed Sep. 17, 2003 (6 pgs.).
 Amendment with an RCE for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Amendment mailed Nov. 20, 2003 (9 pgs.).
 Amendment for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Amendment mailed Mar. 29, 2004 (15 pgs.).
 Amendment for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Amendment mailed Sep. 22, 2004 (10 pgs.).
 Amendment for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Amendment mailed Mar. 22, 2005 (11 pgs.).
 Notice of Appeal, with Pre-Appeal Brief Request and Arguments Accompanying Pre-Appeal Brief Request For Review, for U.S. Appl. No. 09/699,031, filed Oct. 27, 2000, inventor Michael L. Obradovich, Appeal papers mailed Nov. 16, 2005 (7 pgs. total).

FOREIGN PATENT DOCUMENTS

EP 0 853 287 A2 7/1998
 JP 9-231263 5/1997
 WO WO 97/07467 2/1997
 WO WO 99/33293 7/1999

OTHER PUBLICATIONS

European Search Report dated Jun. 23, 2005 for European Patent Application No. EP 05 00 4271.2-2201, filed Mar. 2, 2005, European Search Report mailed Jul. 5, 2005 (5 pgs.).
 American Calcar Inc. "Summons to Attend Oral Proceedings Pursuant to Rule 71(1) EPC" and "Annex To Summons To Oral Proceedings" issued on Dec. 22, 2004 in connection with European Patent Application No. 00972367.7-2201, filed Oct. 27, 2000 (5 pgs.).
 American Calcar Inc. "Communication Pursuant to Article 96(2) EPC" issued on Aug. 1, 2003 in connection with European Patent Application No. 0972367.7-2001, filed Oct. 27, 2000 (7 pgs.).

FIG. 1

100

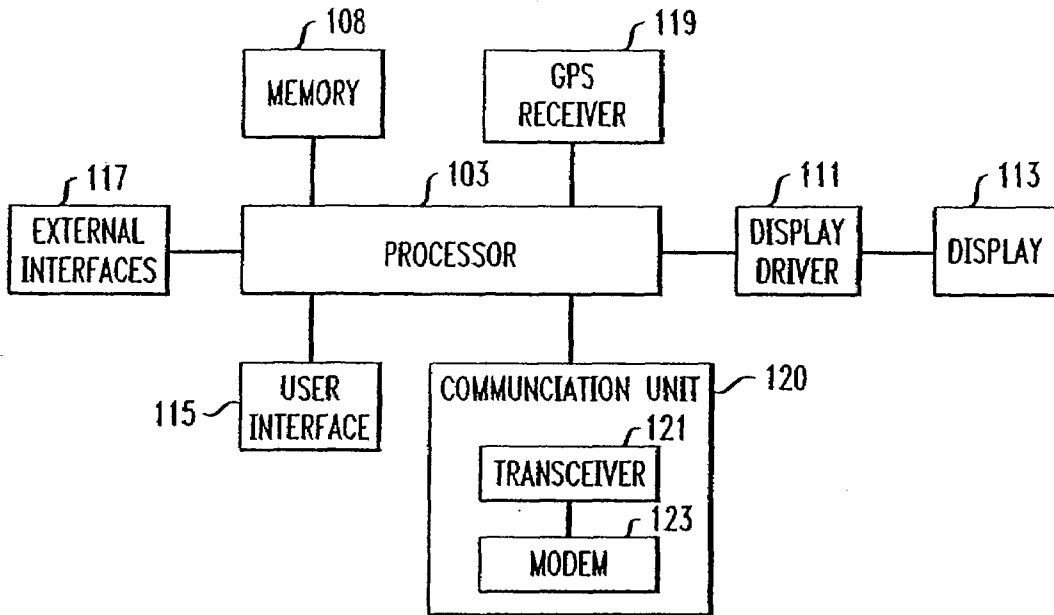
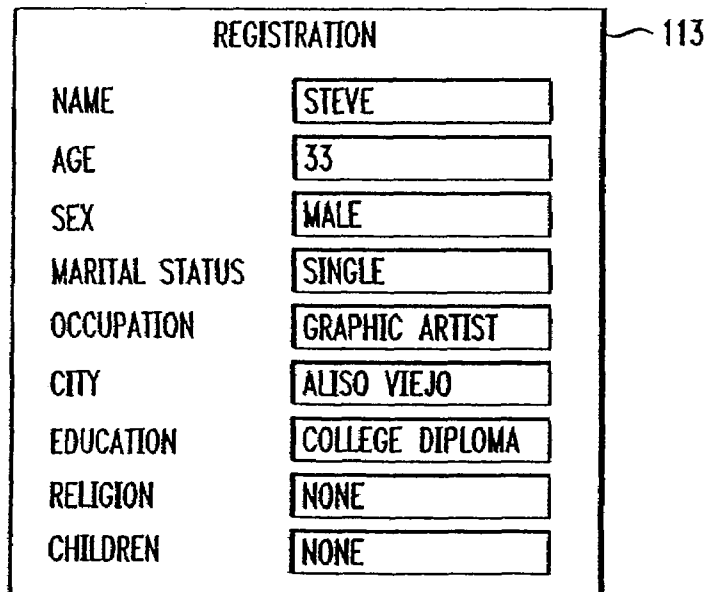


FIG. 2



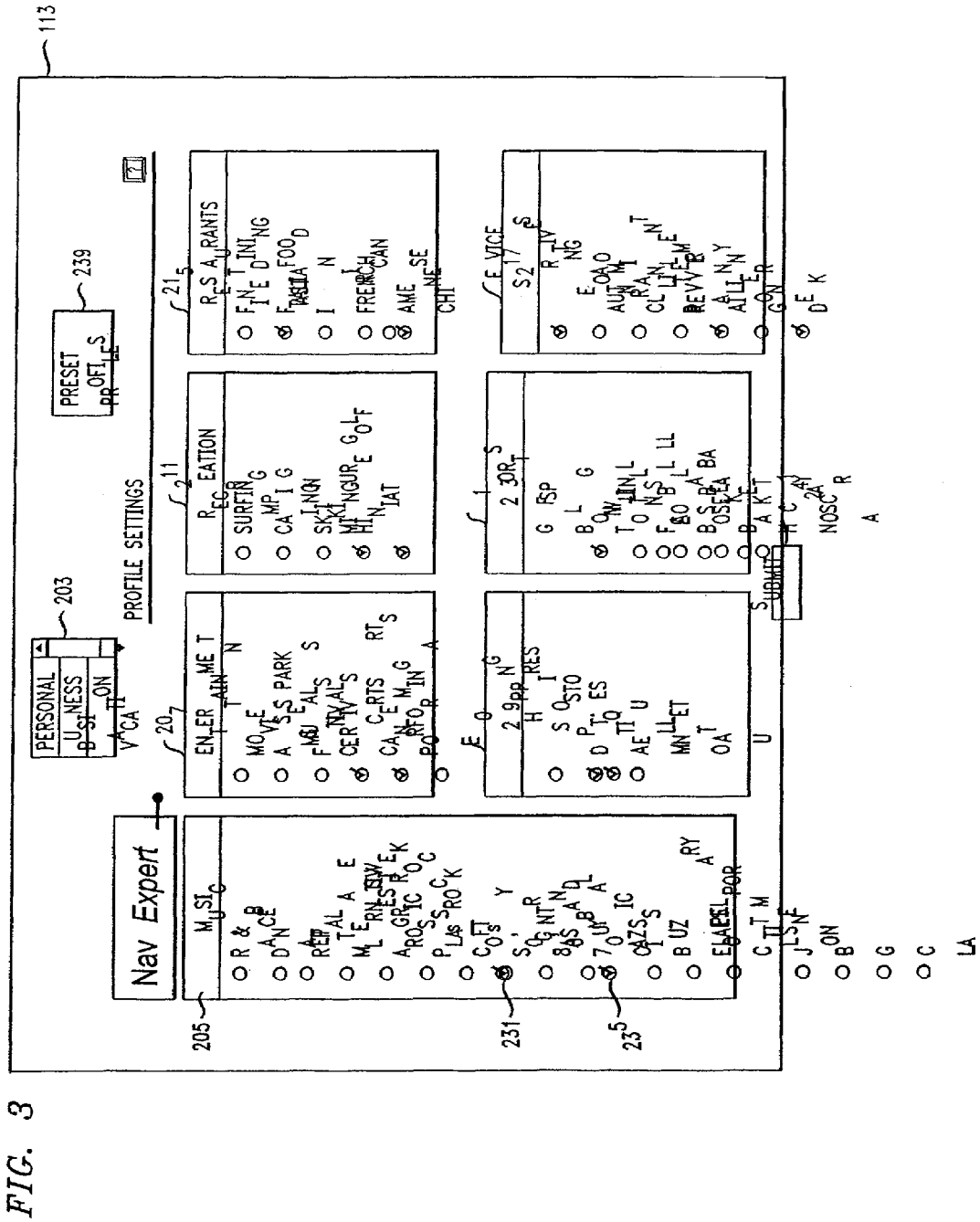


FIG. 3

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.