



US007643917B2

(12) **United States Patent**
Kolletzki

(10) **Patent No.:** **US 7,643,917 B2**
(45) **Date of Patent:** **Jan. 5, 2010**

(54) **VEHICLE MULTIMEDIA SYSTEM**

(75) Inventor: **Johannes Kolletzki**, Neckartailfingen (DE)

(73) Assignee: **Harman Becker Automotive Systems GmbH**, Karlsbad (DE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 3 days.

6,069,614	A	5/2000	Singhal	
6,128,006	A	10/2000	Rosenberg et al.	
6,700,839	B1	3/2004	Aufflick et al.	
6,819,990	B2 *	11/2004	Ichinose	701/36
7,035,720	B2 *	4/2006	Taxis	701/1
7,096,431	B2 *	8/2006	Tambata et al.	715/834
2001/0034573	A1 *	10/2001	Morgan et al.	701/36
2001/0045965	A1 *	11/2001	Orbanes et al.	345/841
2002/0059288	A1	5/2002	Yagi et al.	
2003/0098888	A1	5/2003	Guenther et al.	

(21) Appl. No.: **11/213,509**

(Continued)

(22) Filed: **Aug. 26, 2005**

FOREIGN PATENT DOCUMENTS

(65) **Prior Publication Data**

DE 40 01 062 A1 7/1991

US 2006/0173594 A1 Aug. 3, 2006

(30) **Foreign Application Priority Data**

(Continued)

Aug. 26, 2004 (EP) 04020225
Aug. 26, 2004 (EP) 04020226

OTHER PUBLICATIONS

Methodology for Dynamic Menu Escalation Selection for Pull-Down Menu, IBM Technical Disclosure Bulletin, vol. 37, No. 3, Mar. 1994.

(51) **Int. Cl.**

G06F 7/00 (2006.01)
G06F 19/00 (2006.01)
G06F 3/00 (2006.01)
G06F 3/048 (2006.01)

(Continued)

Primary Examiner—Edward Pipala

(52) **U.S. Cl.** **701/36; 715/716; 715/853**

(58) **Field of Classification Search** 701/1, 701/29, 31, 32, 35, 36, 49, 200; 715/716, 715/717, 727, 811–814, 817–827, 828, 830, 715/832, 835, 841, 844, 853, 854, 866; 340/825, 340/3.1, 3.3, 3.32, 825.25

(57) **ABSTRACT**

A vehicle multimedia system includes a display that displays a hierarchically structured menu. The hierarchically structured menu may have a main menu, a plurality of submenus, and menu items. The multimedia system provides a memory for storing information identifying a menu or menu item, and a memory control unit for writing information related to a menu item upon a user's selection of the menu by an operating element or by automatic return to a main menu, and displaying the information as selectable menu items identified by the information.

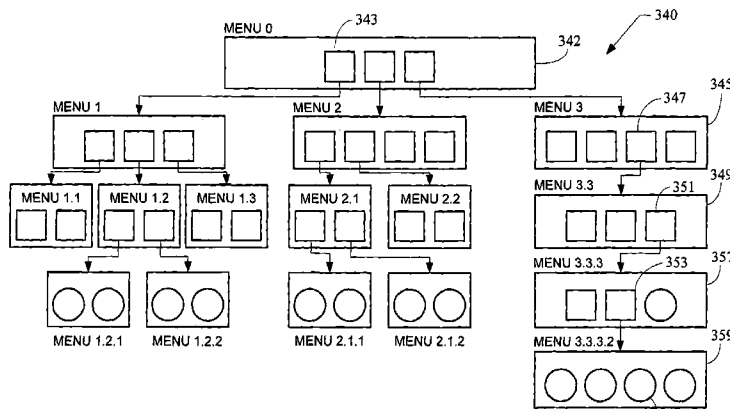
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,862,498	A	8/1989	Reed	
5,187,797	A *	2/1993	Nielsen et al.	715/708
5,524,190	A	6/1996	Schaeffer et al.	
5,757,371	A	5/1998	Oran et al.	
5,802,300	A *	9/1998	Tanaka et al.	709/222

12 Claims, 10 Drawing Sheets



US 7,643,917 B2

Page 2

U.S. PATENT DOCUMENTS

2003/0195681 A1* 10/2003 Rother 701/33
2004/0128275 A1 7/2004 Moehrle

FOREIGN PATENT DOCUMENTS

DE 198 49 328 A1 5/2000
EP 0 727 734 A1 8/1995
EP 0 727 734 A1 8/1996
WO WO 99/49443 9/1999

OTHER PUBLICATIONS

Selectable Dynamic Drop-Down List Boxes, IBM Technical Disclosure Bulletin, vol. 38, No. 12, Dec. 1, 1995.

Snyder, Microsoft Windows 95 Keyboard Guide by Maryanne K. Snyder and Gregory C. Lowney, Copyright © 1996 Microsoft Corporation, pp. 1-13.

Menu Selection, Anonymous, Kenneth Mason Publications, vol. 328, No. 71, Aug. 1998.

European Search Report for Application No. 04 020 225.1 dated Apr. 6, 2005.

McFedries Paul, The Complete Idiot's Guide™ to Windows® 95, Second Edition, Fig. 1-8.

Windows XP, Microsoft® Windows XP Pro, Version 2002, Fig. 1, 2.

* cited by examiner

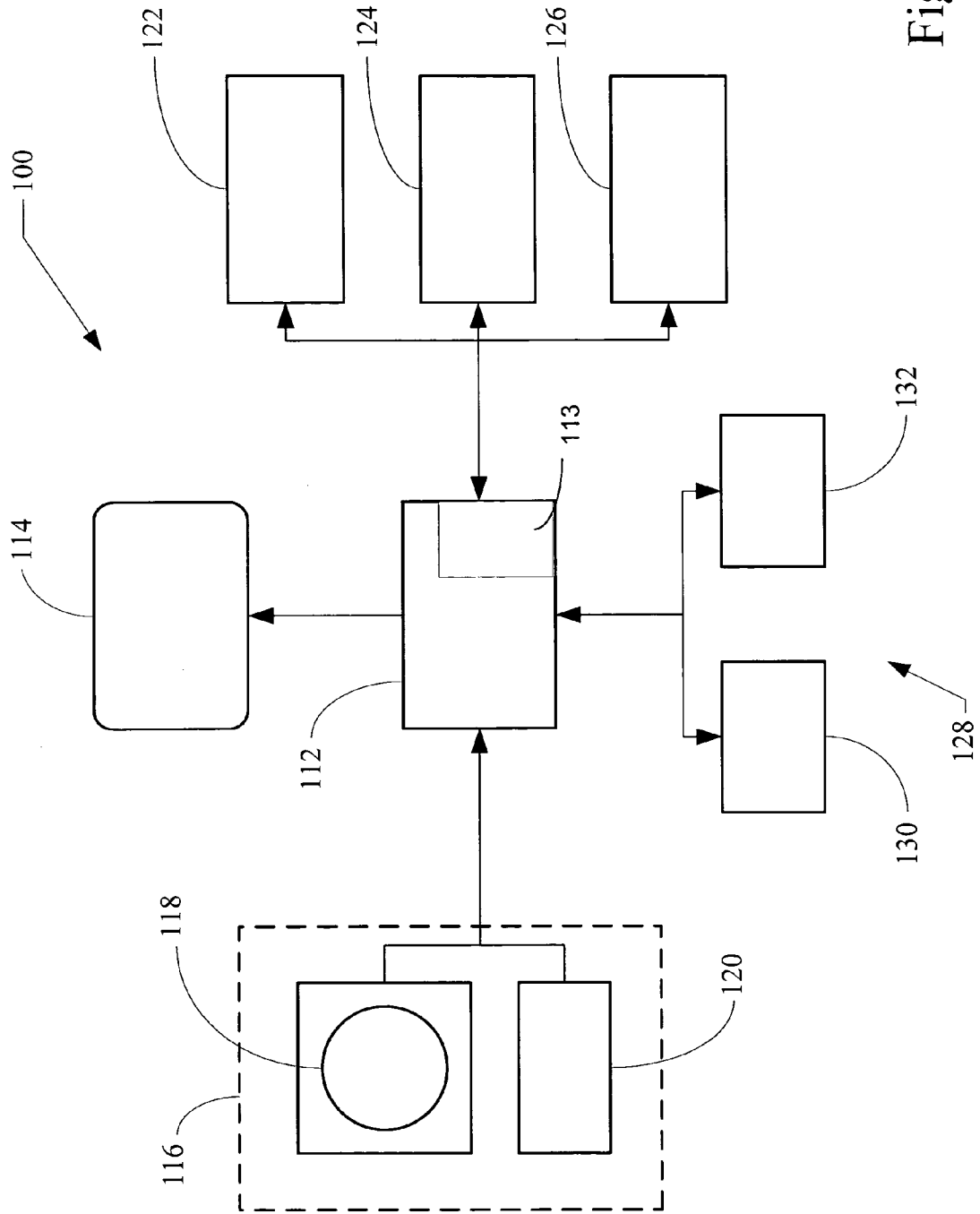


Fig. 1

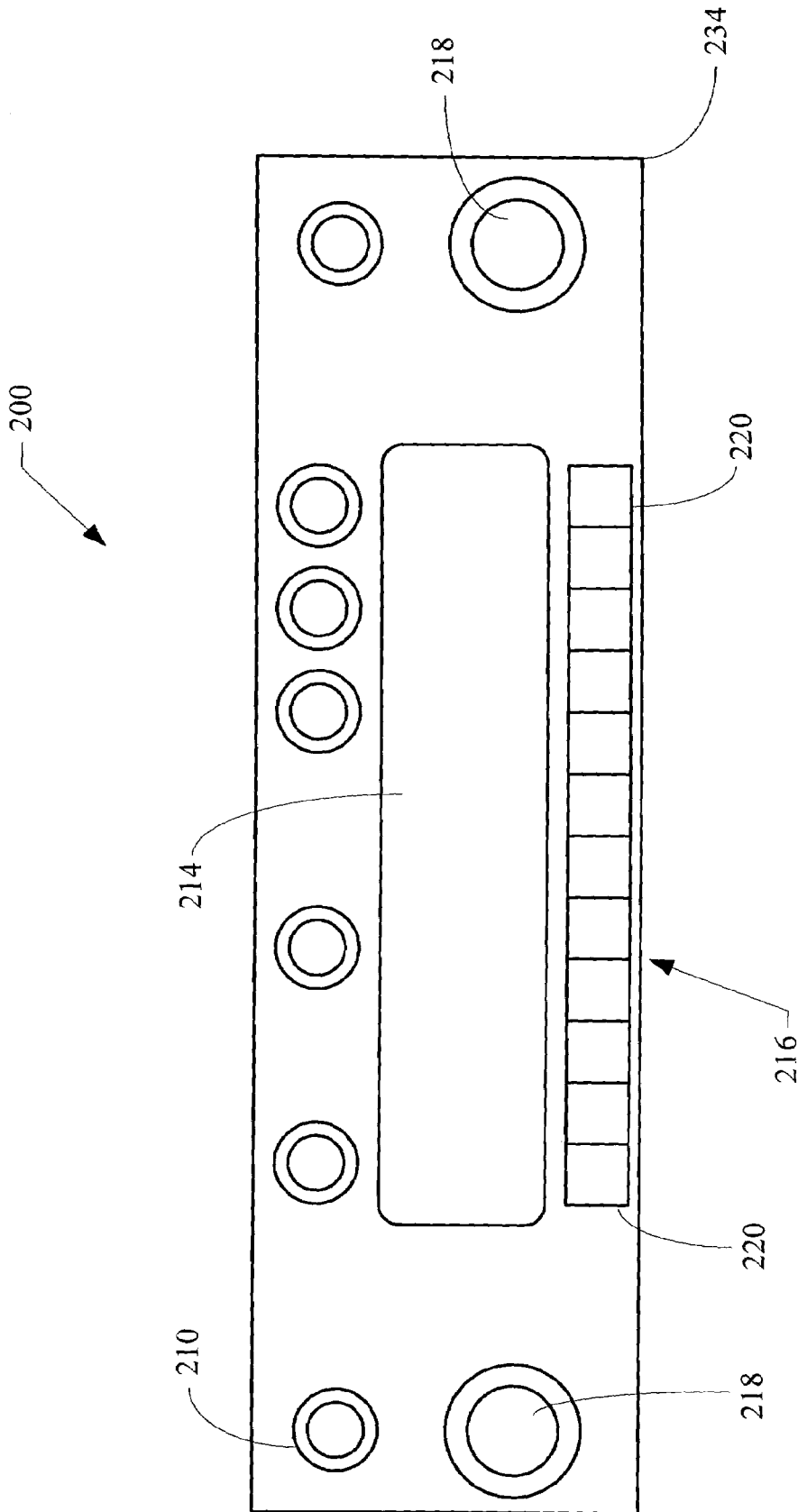


Fig. 2

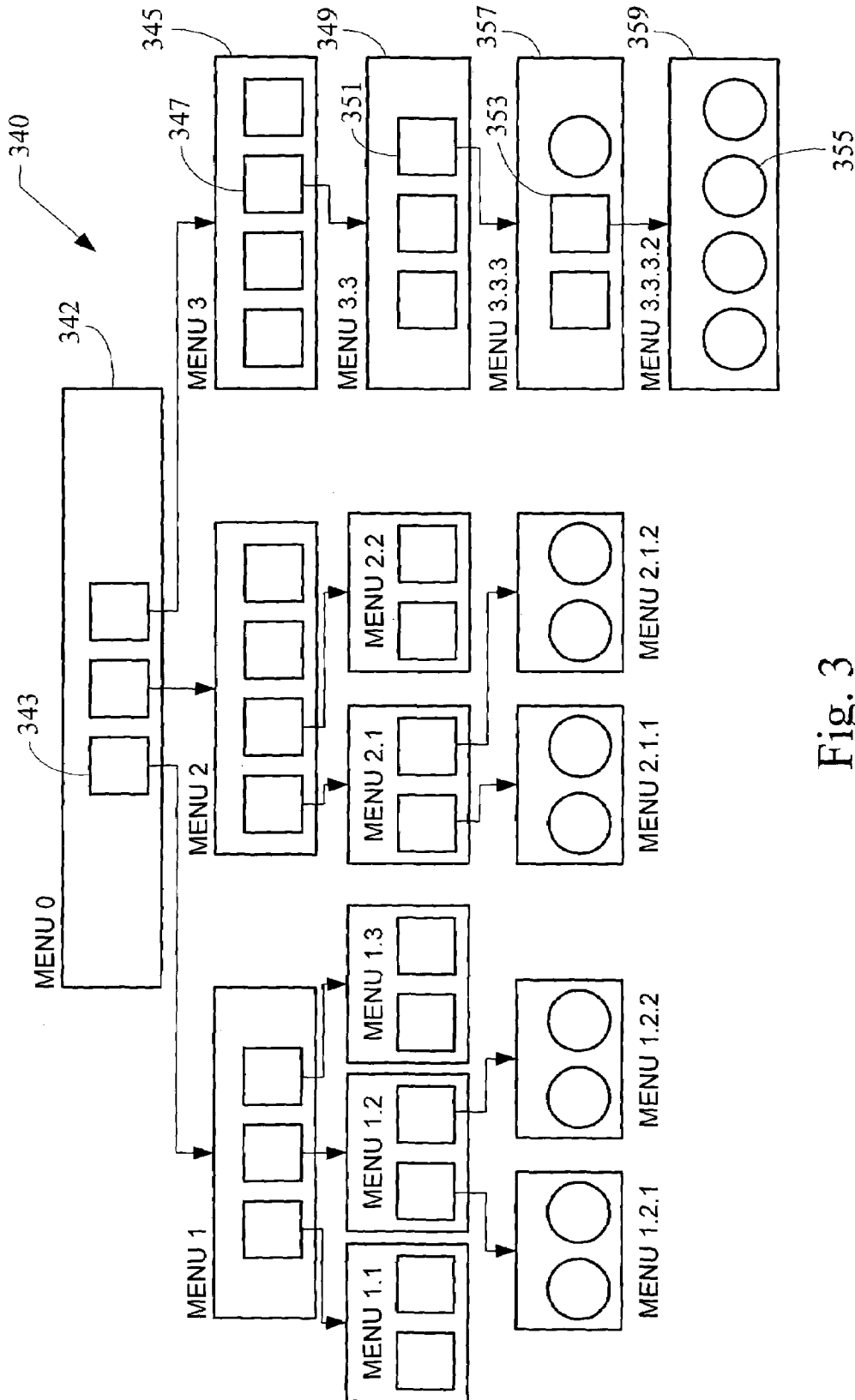


Fig. 3

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.