United States Patent [19]

Anderson et al.

[11] **Patent Number:** **6,118,480**

[45] **Date of Patent:** ***Sep. 12, 2000**

[54] **METHOD AND APPARATUS FOR INTEGRATING A DIGITAL CAMERA USER INTERFACE ACROSS MULTIPLE OPERATING MODES**

[75] Inventors: **Eric C. Anderson**, San Jose; **Steve Saylor**, Morgan Hill; **Amanda R. Mander**, Palo Alto, all of Calif.

[73] Assignee: **FlashPoint Technology, Inc.**, San Jose, Calif.

[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

[21] Appl. No.: **08/851,667**

[22] Filed: **May 6, 1997**

[51] **Int. Cl.⁷** H04N 5/222

[52] **U.S. Cl.** 348/207
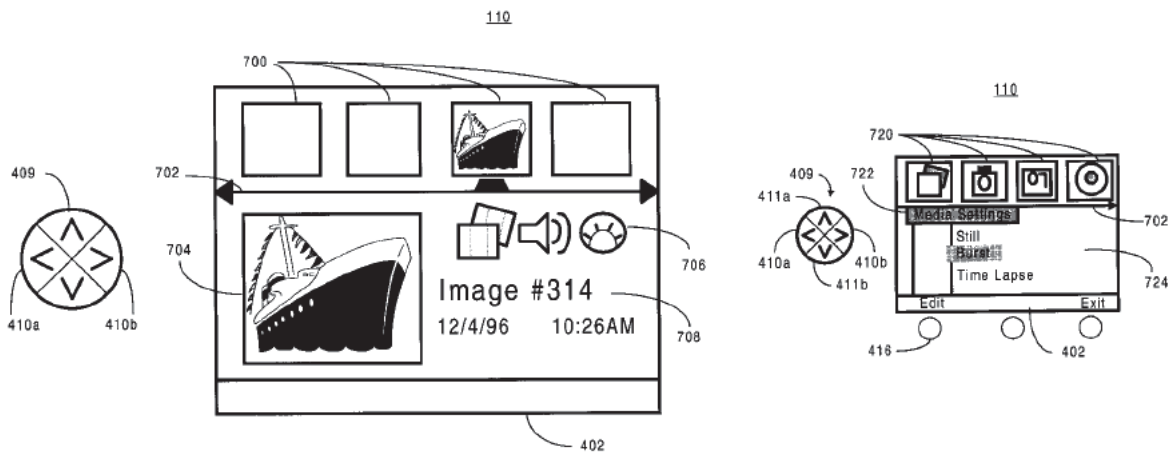
[58] **Field of Search** 348/333, 334, 348/373, 375, 376, 552, 232, 233, 211, 231, 222, 207, 239; 358/906, 909.1

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,935,809	6/1990	Hayashi et al.	358/527
4,982,291	1/1991	Kurahashi et al.	386/70
5,138,460	8/1992	Egawa	358/909.1
5,146,353	9/1992	Isoguchi et al.	358/909.1
5,335,072	8/1994	Tanaka et al.	
5,404,316	4/1995	Klingler et al.	364/514
5,473,370	12/1995	Moronaga et al.	348/231
5,513,306	4/1996	Mills et al.	395/148
5,517,606	5/1996	Matheny et al.	395/156
5,553,277	9/1996	Hirano et al.	395/139
5,630,017	5/1997	Gasper et al.	395/173
5,742,504	4/1998	Meyer et al.	395/94
5,748,831	5/1998	Kubo	386/46
5,796,428	8/1998	Matsumoto et al.	348/231
5,819,103	10/1998	Endoh et al.	395/821
5,822,492	10/1998	Wakui et al.	386/107
5,845,166	12/1998	Fellegara et al.	348/64
5,861,918	1/1999	Anderson et al.	348/233
5,940,121	8/1999	Mcintyre et al.	348/207

FOREIGN PATENT DOCUMENTS

8223524	8/1996	Japan	H04N 5/225
9220186	11/1992	WIPO	H04N 5/262

Primary Examiner—Wendy Garber
Assistant Examiner—Aung S. Moe
Attorney, Agent, or Firm—Sawyer Law Group LLP

[57] **ABSTRACT**

A method and apparatus for integrating a user interface across multiple operating modes of a digital camera including a display. When the digital camera is placed into each one of the multiple operating modes, mode-specific items corresponding to that mode are displayed on the display. The digital camera includes a first button and a second button for interacting with the multiple operating modes, where the first button has a first orientation, and the second button has a second orientation. The method and apparatus includes mapping an aligned set of mode-specific items in the display to the orientation of the first button. After the mode-specific items are displayed, the user scrolls from one mode-specific item to the next in the aligned set by pressing the first button and the display indicates which of the mode-specific items is a currently active item. When a mode-specific item becomes the active item, additional information corresponding to the currently active item is displayed in the display in a location offset from the active item in a direction of orientation corresponding to that of the second button.

31 Claims, 11 Drawing Sheets

FIG. 1

FIG. 2

FIG. 3

408

404

402

LCD Screen

Buttons & Dials

Status LCD

Computer

390

LCD Controller

348

I/O

116

342

Remov Mem

346

350

352

Power Manager

CPU

DRAM

Non-volatile Memory

344

356

358

364

Power Supply

Main Batteries

360
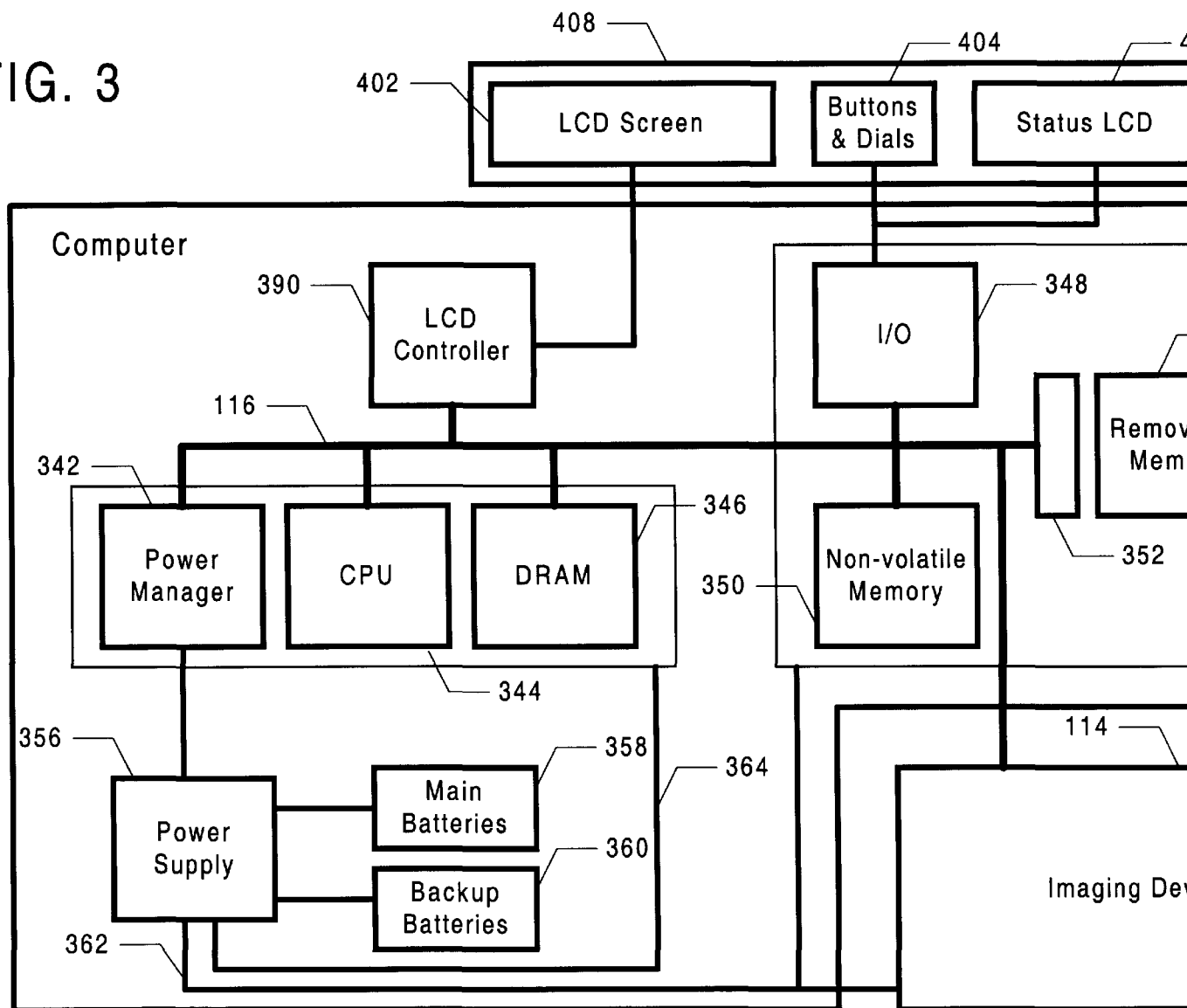
114

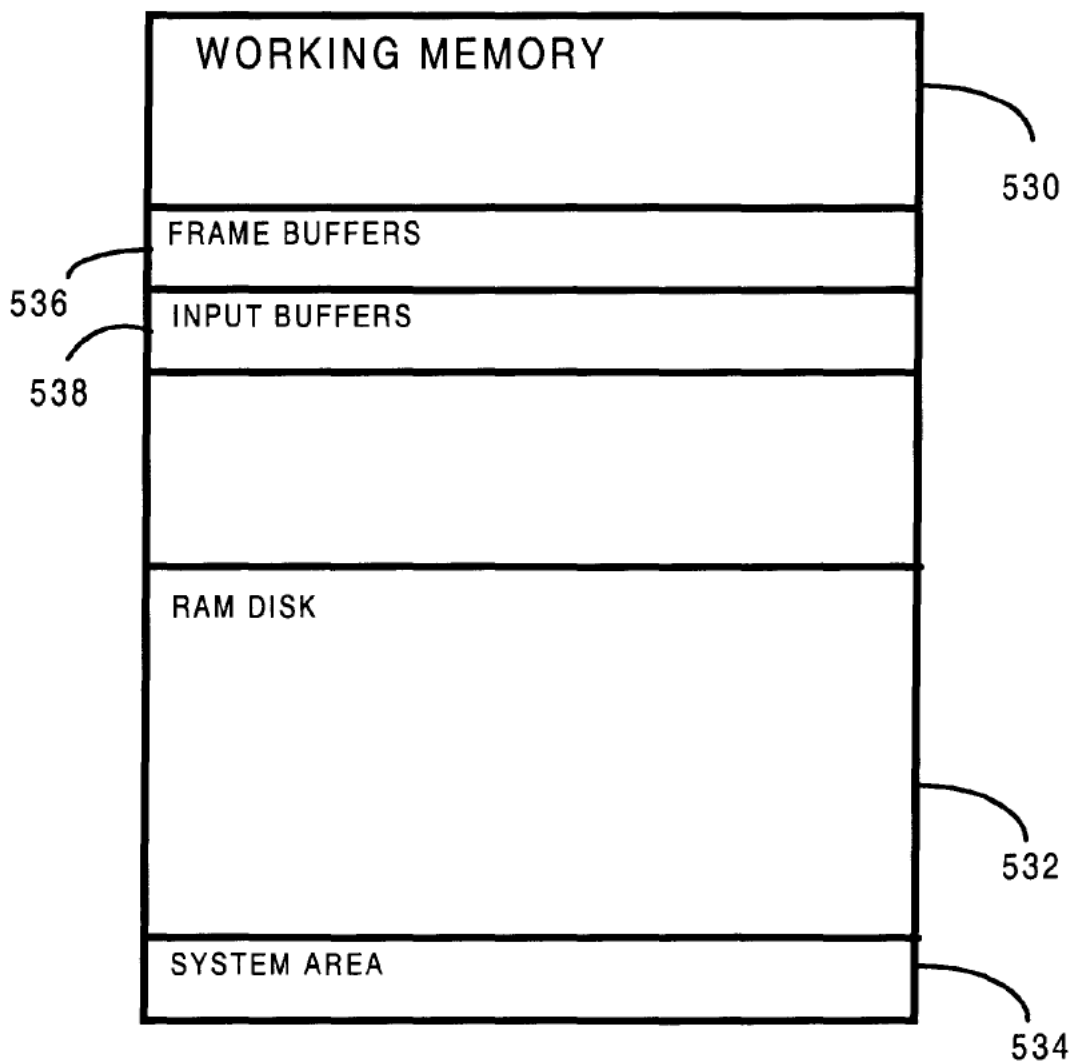**Backup Batteries**

362

Imaging Dev

346
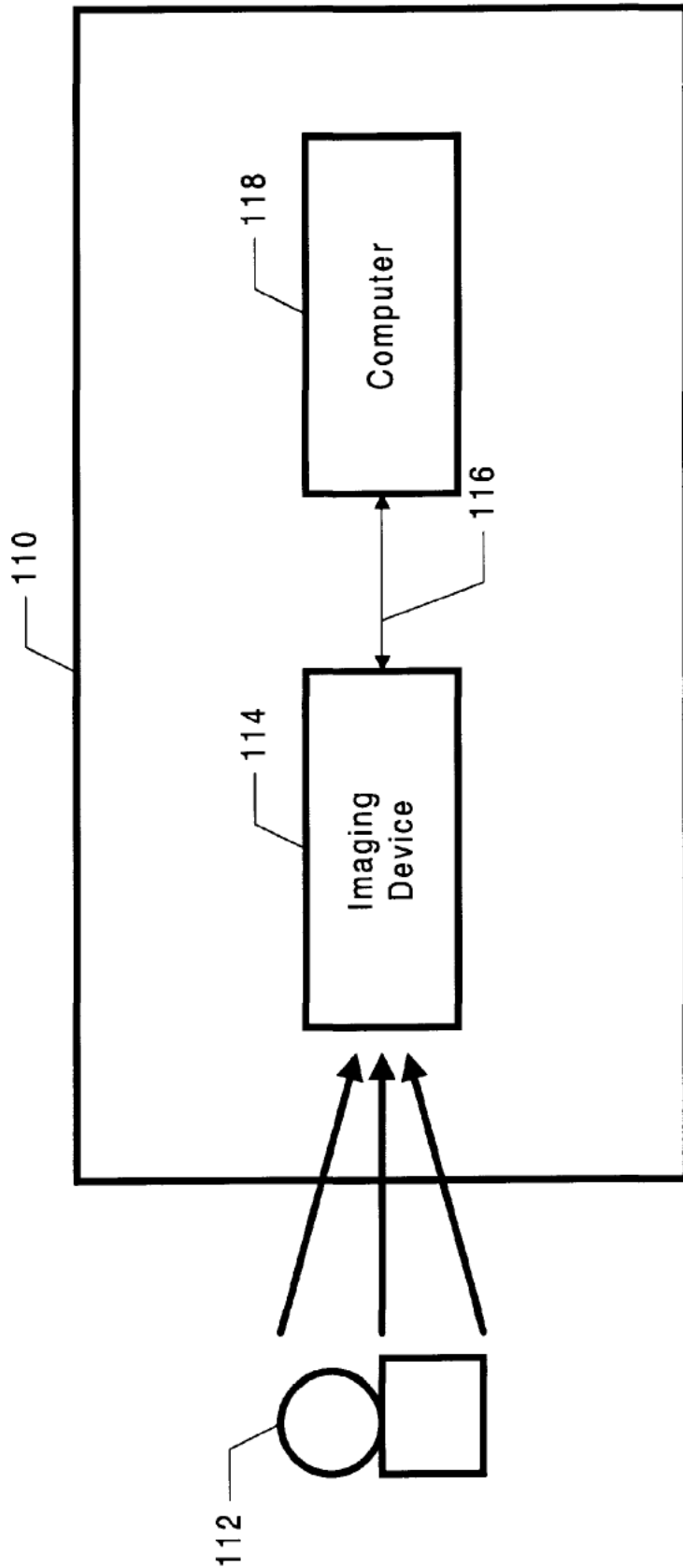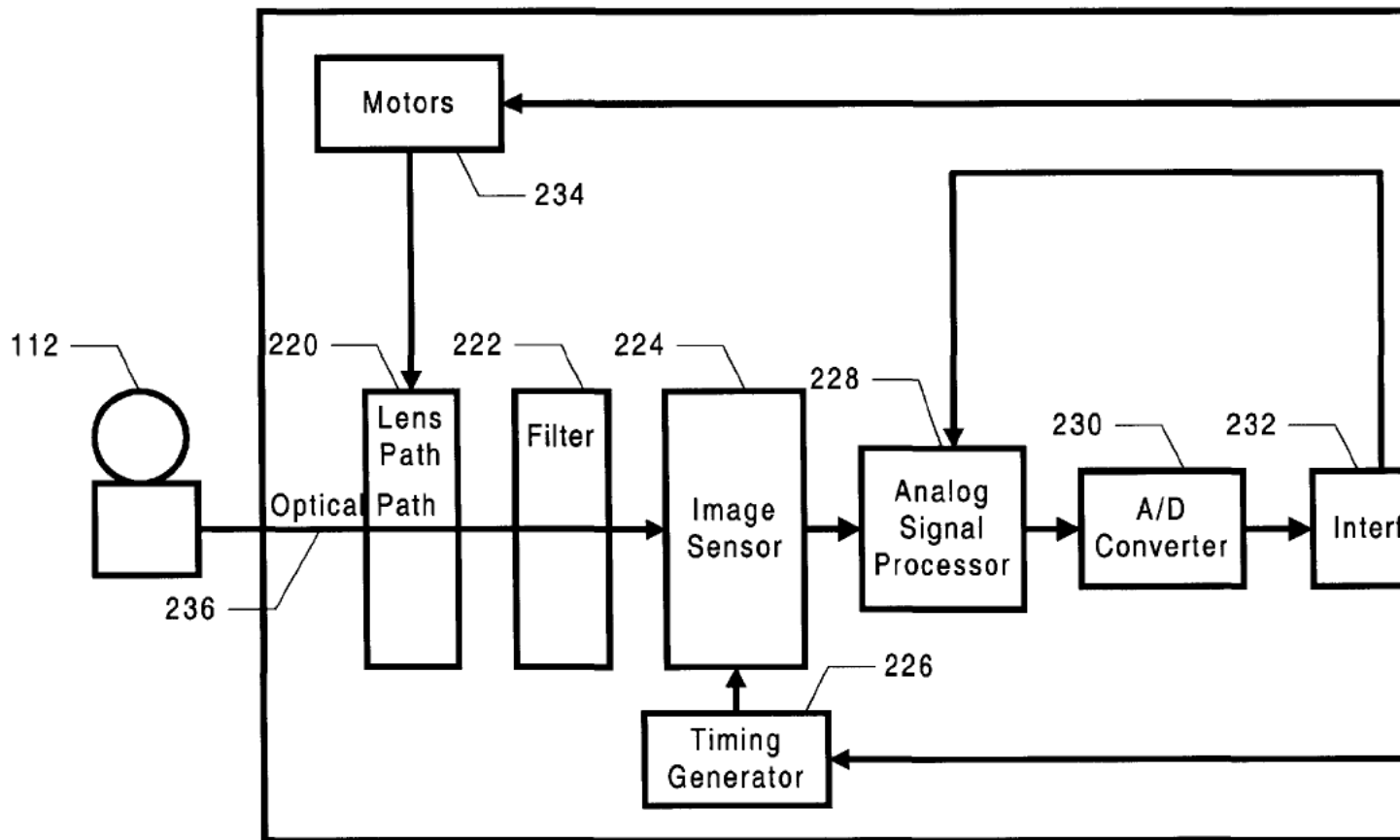
FIG. 4A

DOCKET ALARM

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.

fastcase®
Smarter legal research.