

Ex. GOOG 1030

United States Patent [19]

Matsumoto et al.

[11] **Patent Number:** 5,796,428

[45] **Date of Patent:** Aug. 18, 1998

[54] **ELECTRONIC PHOTOGRAPHY SYSTEM**

[75] Inventors: **Kiyoshi Matsumoto**, Kokubunji;
Yuichi Yagawa, Chigasaki; **Kazuto Senda**, Hachioji, all of Japan

[73] Assignee: **Hitachi, Ltd.**, Tokyo, Japan

[21] Appl. No.: **325,095**

[22] Filed: **Oct. 17, 1994**

[30] **Foreign Application Priority Data**

Oct. 21, 1993 [JP] Japan 5-263354

[51] Int. Cl.⁶ **H04N 5/222**

[52] U.S. Cl. **348/231**; 348/588; 348/722;
358/909.1

[58] **Field of Search** 358/909.1, 906,
358/335, 310; 348/232, 208, 231, 239,
589, 722, 578, 563, 588, 714, 718; H04N 5/255,
5/262, 5/265, 5/272, 5/278

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,717,971	1/1988	Sawyer	358/342
4,888,648	12/1989	Takeuchi et al.	358/335
4,943,866	7/1990	Barker et al.	348/722
5,012,334	4/1991	Etra	348/722
5,043,816	8/1991	Nakano et al.	348/231
5,146,353	9/1992	Isoguchi et al.	348/232
5,162,915	11/1992	Idera et al.	348/239
5,231,501	6/1993	Sakai	358/906
5,270,831	12/1993	Parulski et al.	358/403
5,295,077	3/1994	Fukuoka	348/231

5,402,171	3/1995	Tagami et al.	348/279
5,438,359	8/1995	Aoki	348/231
5,440,401	8/1995	Parulski et al.	358/342
5,448,550	9/1995	Mok et al.	369/272
5,600,844	2/1997	Shaw et al.	395/800

FOREIGN PATENT DOCUMENTS

A-3-261935	of 0000	Japan	
406110107	4/1994	Japan	348/820

OTHER PUBLICATIONS

"A Microcomputer-Based Image Database Management System"; Prasad et al; IEEE Transactions, vol. IE-34 #1, Feb. '87, pp. 83-88.

Primary Examiner—Victor R. Kostak
Attorney, Agent, or Firm—Antonelli, Terry, Stout & Kraus, LLP

[57] **ABSTRACT**

An electronic photography system which displays an image shot by an electronic image capturing unit. The electronic image capturing unit includes an optical path, an image pickup for converting a focused image to electronic image data, an information inputting device for adding attribute data to the image data, and a storage for storing the image data and attribute data in mutually associated relationship. The system further includes the unit for classifying the image data on the basis of the attribute data for grouping the image data into album groups, and selecting, the album group to display the image data included in the selected album.

19 Claims, 46 Drawing Sheets

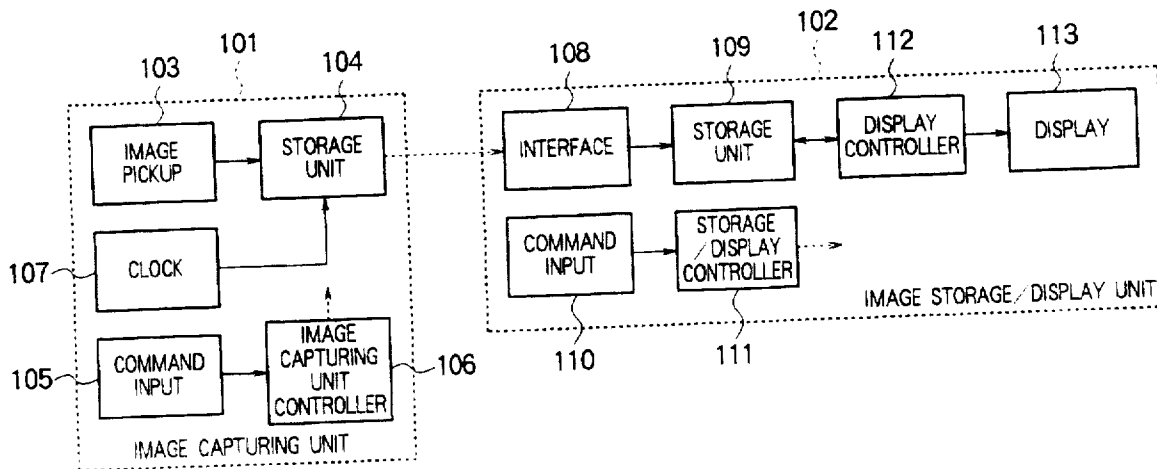


FIG. 1

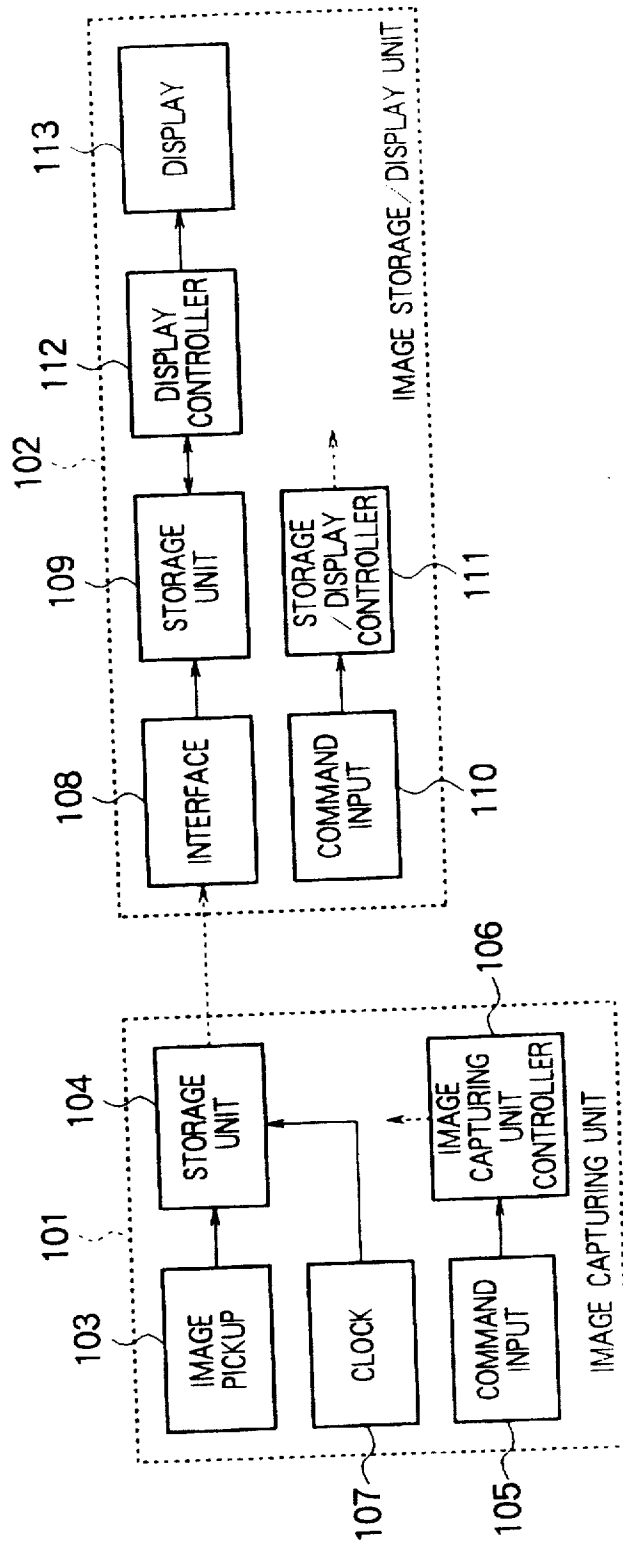


FIG. 2

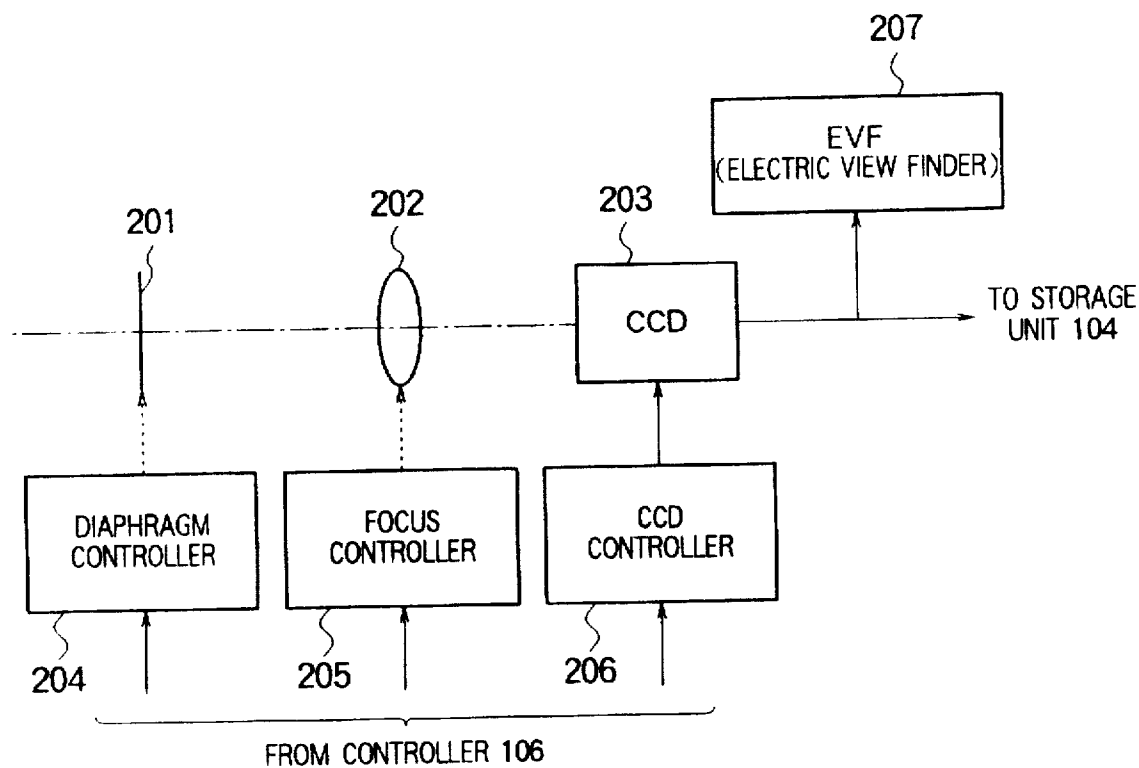
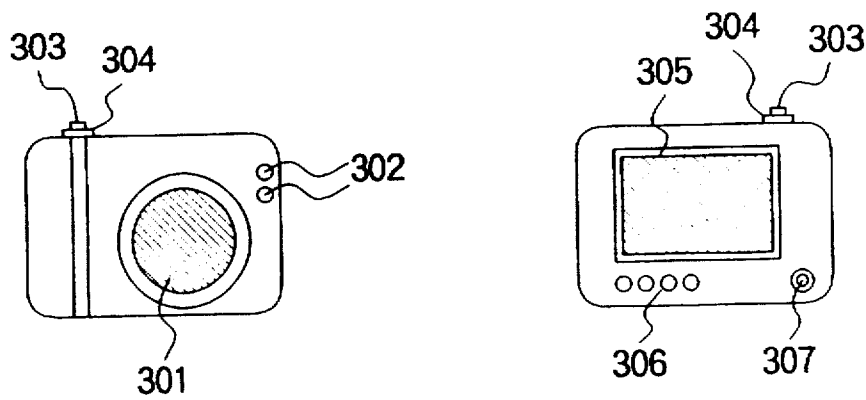


FIG. 3



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.