US006229963B1

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

(10) **Patent No.: US 6,229,963 B1**
(45) **Date of Patent: *May 8, 2001**

(54) **DISPLAY DEVICE FOR A CAMERA**

(75) Inventors: **Hidenori Miyamoto**, Urayasu; **Hiroshi Wakabayashi**, Yokohama, both of (JP)

(73) Assignee: **Nikon Corporation**, Tokyo (JP)

(*) 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).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **08/770,636**

(22) Filed: **Dec. 19, 1996**

Related U.S. Application Data

(63) Continuation of application No. 08/187,729, filed on Jan. 28, 1994, now abandoned.

(30) **Foreign Application Priority Data**

Jan. 28, 1993 (JP) 5-012902

(51) **Int. Cl.**[7] **G03B 17/18**
(52) **U.S. Cl.** **396/292**
(58) **Field of Search** 396/292, 281, 396/287, 288, 291, 434

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,192,606 * 3/1980 Lewis 355/40
4,215,920 * 8/1980 Butler 352/92
4,365,881 * 12/1982 Hazama et al. 354/76
4,945,373 * 7/1990 Hashimoto 354/217
5,040,006 * 8/1991 Matsumura et al. 354/106
5,396,305 * 3/1995 Egawa 354/76
5,579,066 * 11/1996 Miyamoto et al. 396/279
5,600,386 * 2/1997 Saito et al. 396/315
5,678,092 * 10/1997 Kim et al. 396/287
5,745,809 * 4/1998 Kawahata 396/287

FOREIGN PATENT DOCUMENTS

60-74140 5/1985 (JP) .
0240231 * 10/1986 (JP) 354/475
3-233535 10/1991 (JP) .

OTHER PUBLICATIONS

Olympus Zoom2000 owners manual, Aug. 1993.*

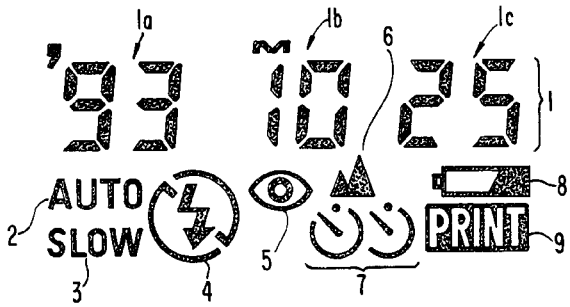
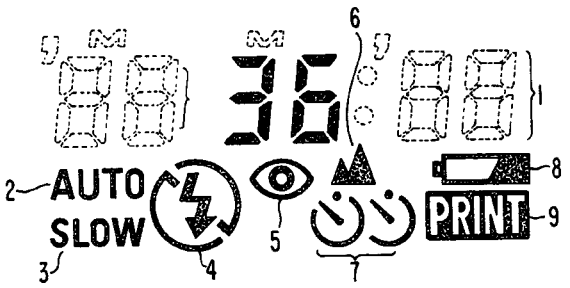
Syashinkagaku magazine, vol. 49, No. 1, "Camera Test EOS1000" (1991).

Konica instruction manual of Big Mini BM–201, pp. 51–54.

* cited by examiner

Primary Examiner—Christopher E. Mahoney

(57) **ABSTRACT**

A display device for a camera including a multiple section display that displays data arranged in a specified direction. A control unit controls the multiple section display to display date data or a count of the frames of film. The count of the frames of film is displayed in the center of the multiple section display so that it is easy to see.

5 Claims, 2 Drawing Sheets