



US006088532A

United States Patent [19]
Yamamoto et al.

[11] Patent Number: 6,088,532
[45] Date of Patent: *Jul. 11, 2000

- [54] **IMAGE SIGNAL READING OPERATION CONTROL DEVICE**
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both of Tokyo, Japan
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- [*] 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).

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[21] Appl. No.: **08/580,684**

[22] Filed: **Dec. 29, 1995**

[30] **Foreign Application Priority Data**

| | | | |
|--------------|------|-------------|----------|
| Jan. 6, 1995 | [JP] | Japan | 7-016551 |
| Jan. 6, 1995 | [JP] | Japan | 7-016552 |
| Jan. 6, 1995 | [JP] | Japan | 7-016553 |
| Jan. 6, 1995 | [JP] | Japan | 7-016554 |
| Jan. 6, 1995 | [JP] | Japan | 7-016555 |
| Jan. 6, 1995 | [JP] | Japan | 7-016556 |

[51] **Int. Cl.**⁷ **G03B 17/50; G03B 17/48; G03B 19/00**

[52] **U.S. Cl.** **396/30; 396/429**

[58] **Field of Search** **396/30, 429, 430; 348/202, 297, 96-100, 102-103, 110; 358/506, 487, 497, 486, 474, 509, 510, 475, 480**

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[57] **ABSTRACT**

An image signal reading operation control device has an electro-developing recording medium to electronically develop an image formed by a photographing optical system. The image is read out by a line sensor with the electro-developing recording medium being illuminated by a light source. Namely, pixel signals arranged along a horizontal scanning line are read by the line sensor while the line sensor is set at a predetermined position, and then the line sensor is moved in a direction perpendicular to the horizontal scanning line by a predetermined amount. When the image is read out by the line sensor, the light source is displaced along the longitudinal direction of the line sensor.

26 Claims, 26 Drawing Sheets

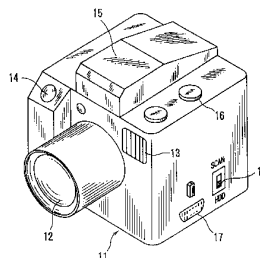
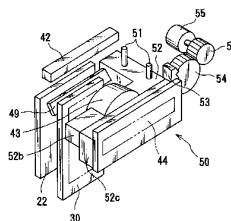


Fig. 1

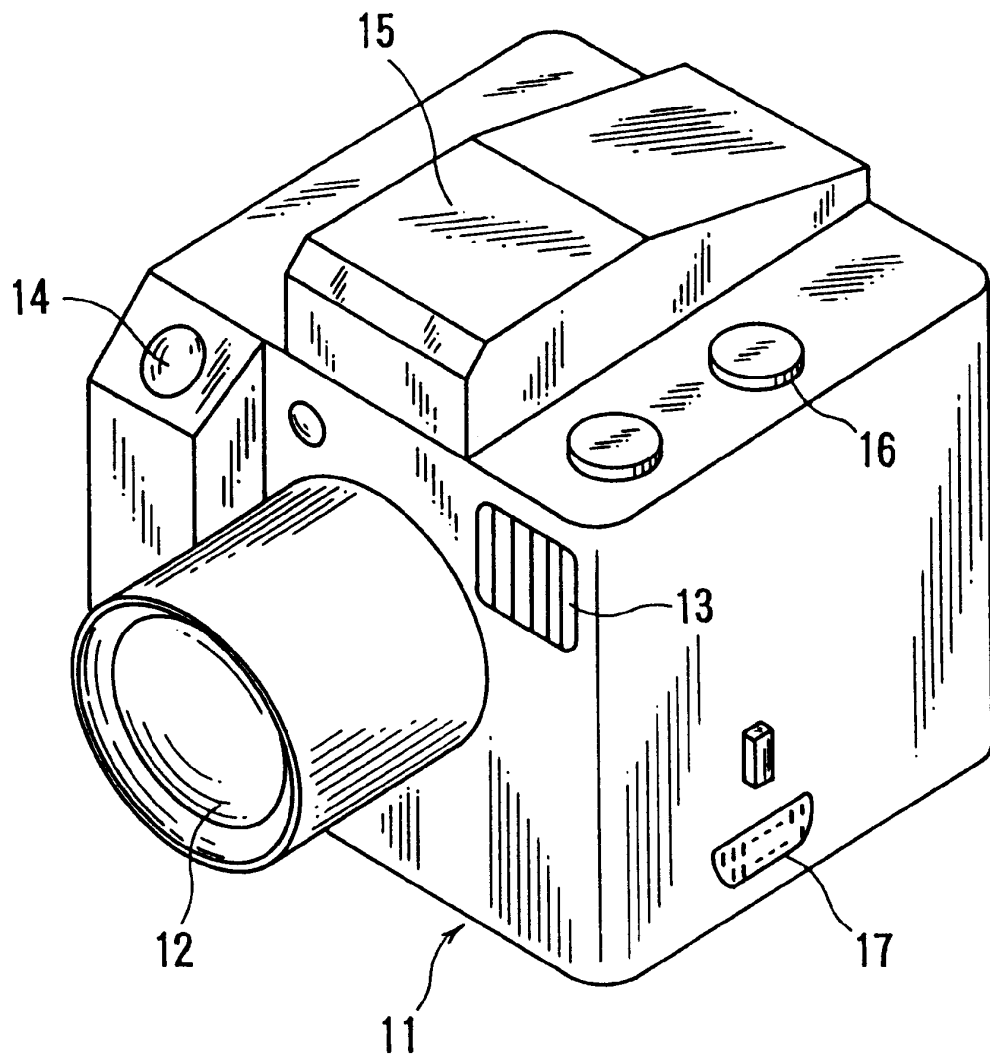


Fig. 2

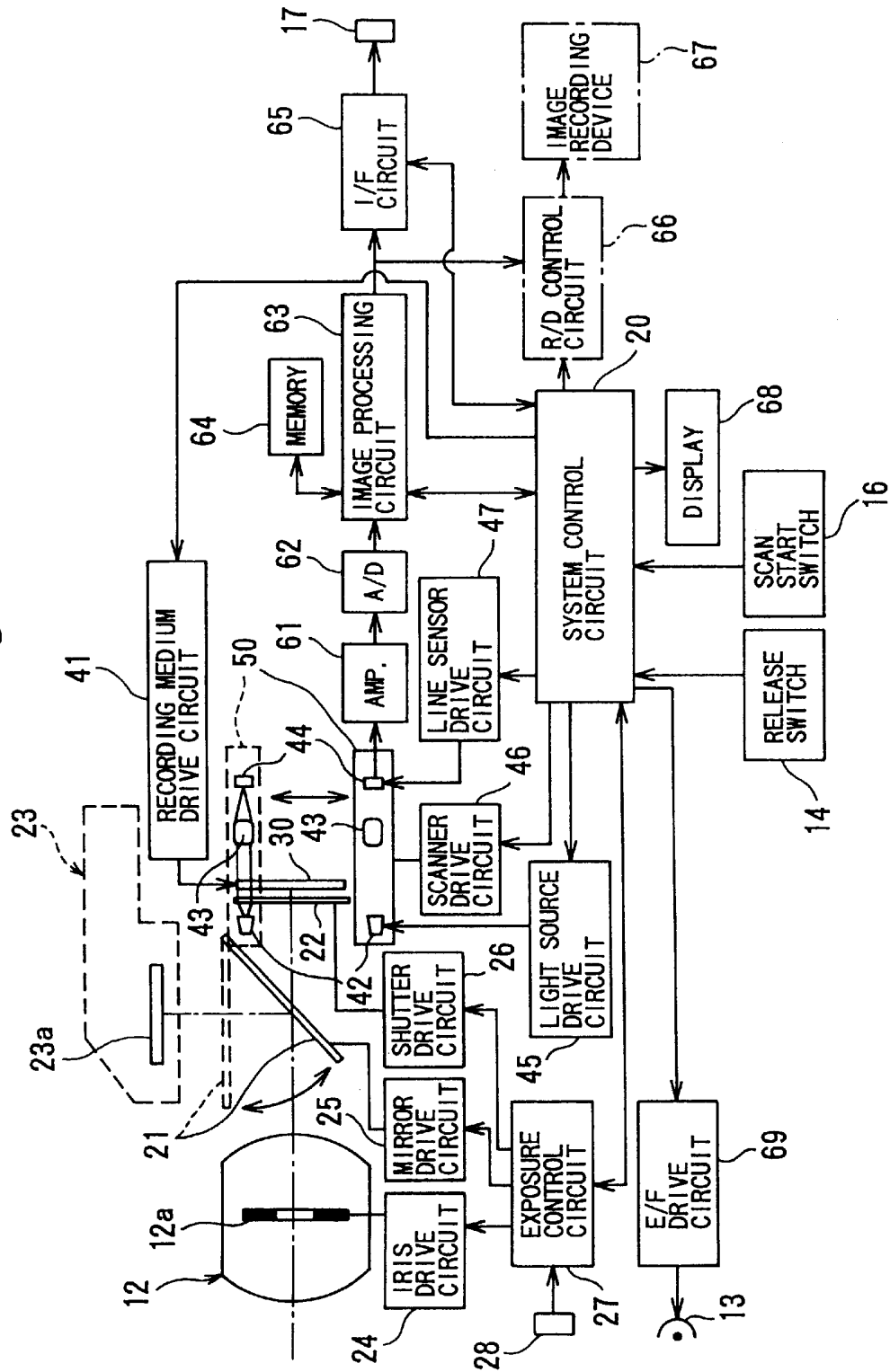


Fig. 3

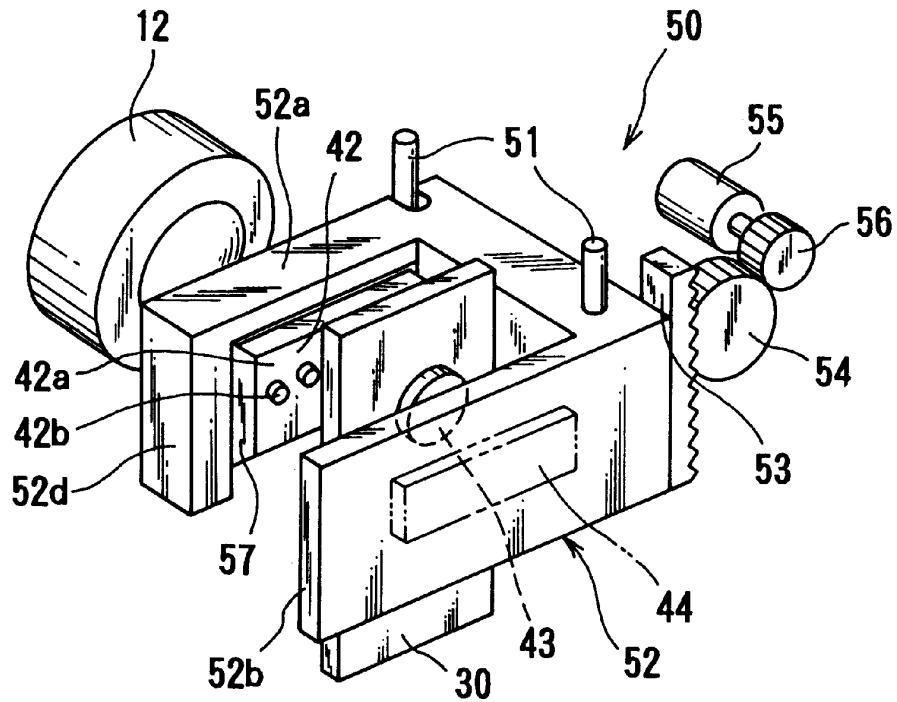


Fig. 5

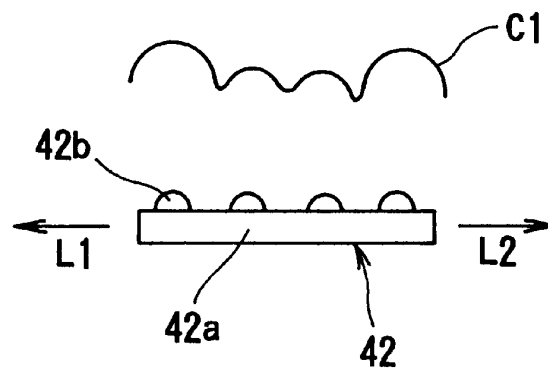
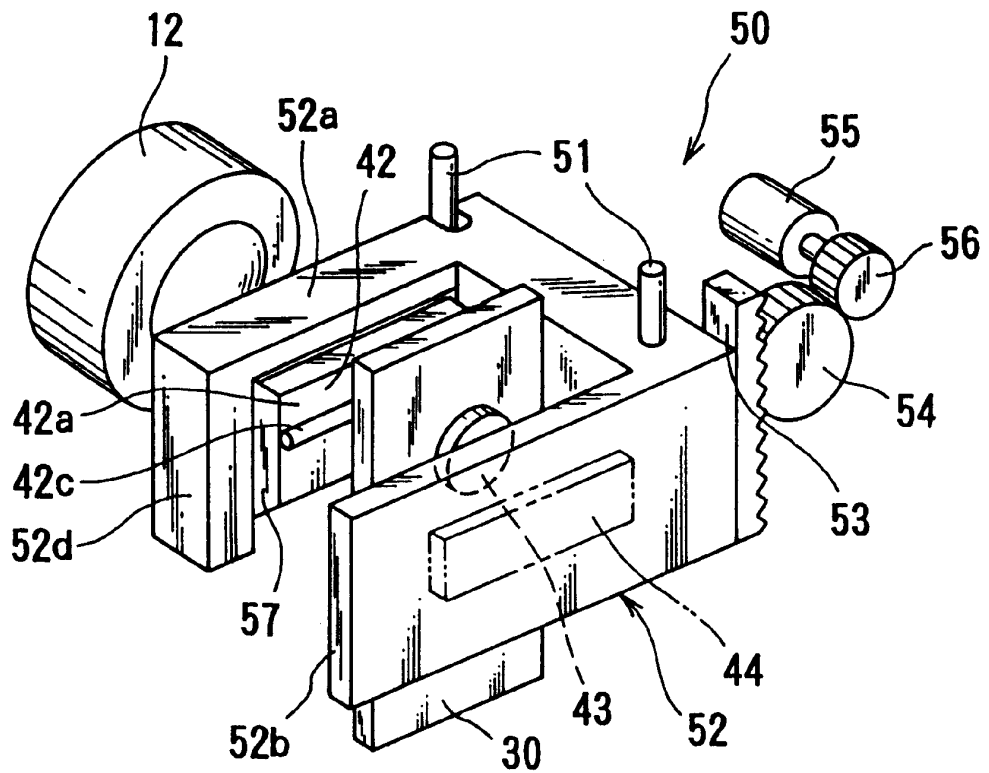


Fig. 4



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