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# United States Patent [19]

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**Yamamoto et al.**

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[54] **IMAGE SIGNAL READING OPERATION CONTROL DEVICE**

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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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Jan. 6, 1995	[JP]	Japan .....	7-016554
Jan. 6, 1995	[JP]	Japan .....	7-016555
Jan. 6, 1995	[JP]	Japan .....	7-016556

[51] **Int. Cl.<sup>7</sup>** ..... **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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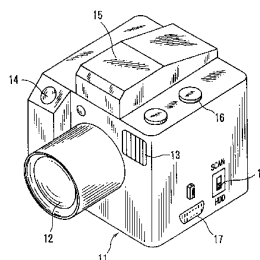
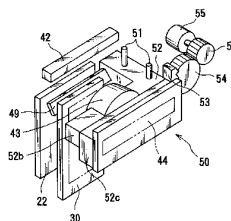
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*Attorney, Agent, or Firm*—Greenblum & Bernstein, P.L.C.

[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*

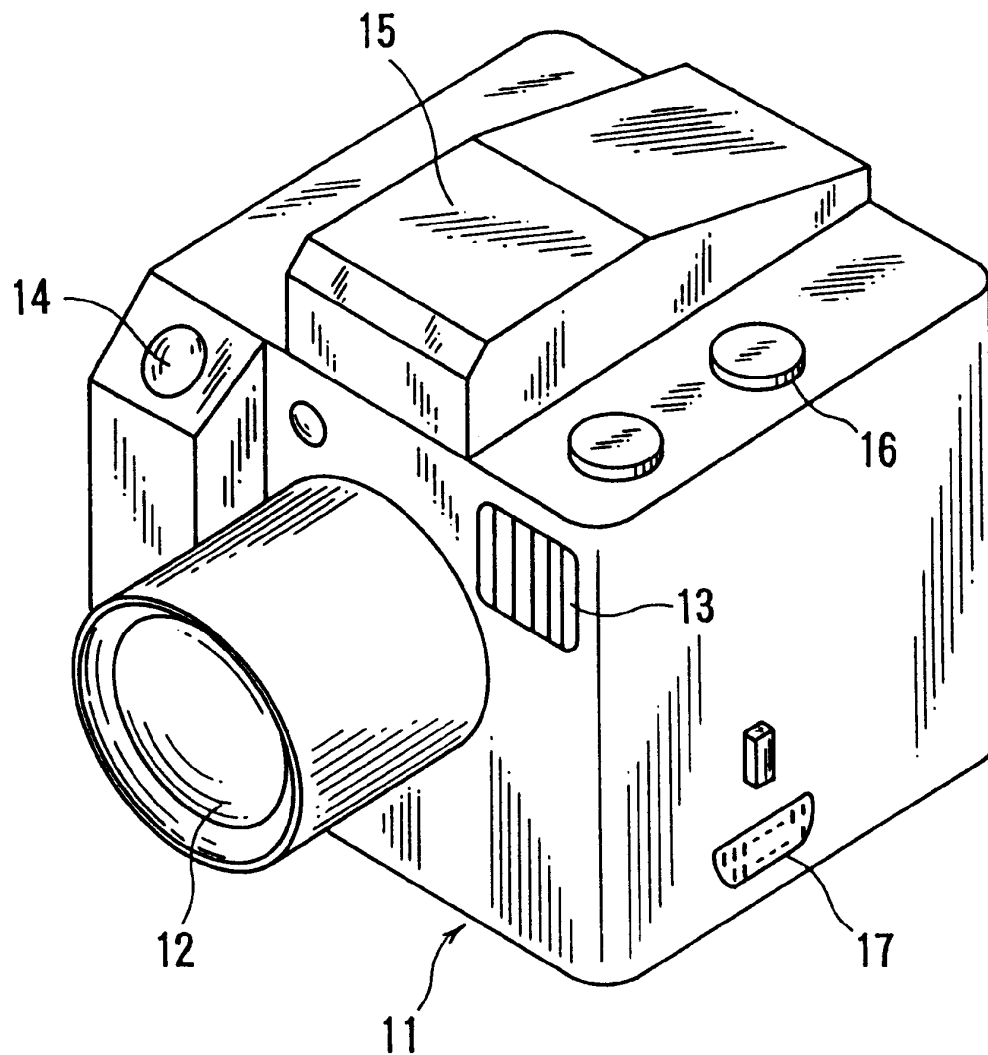
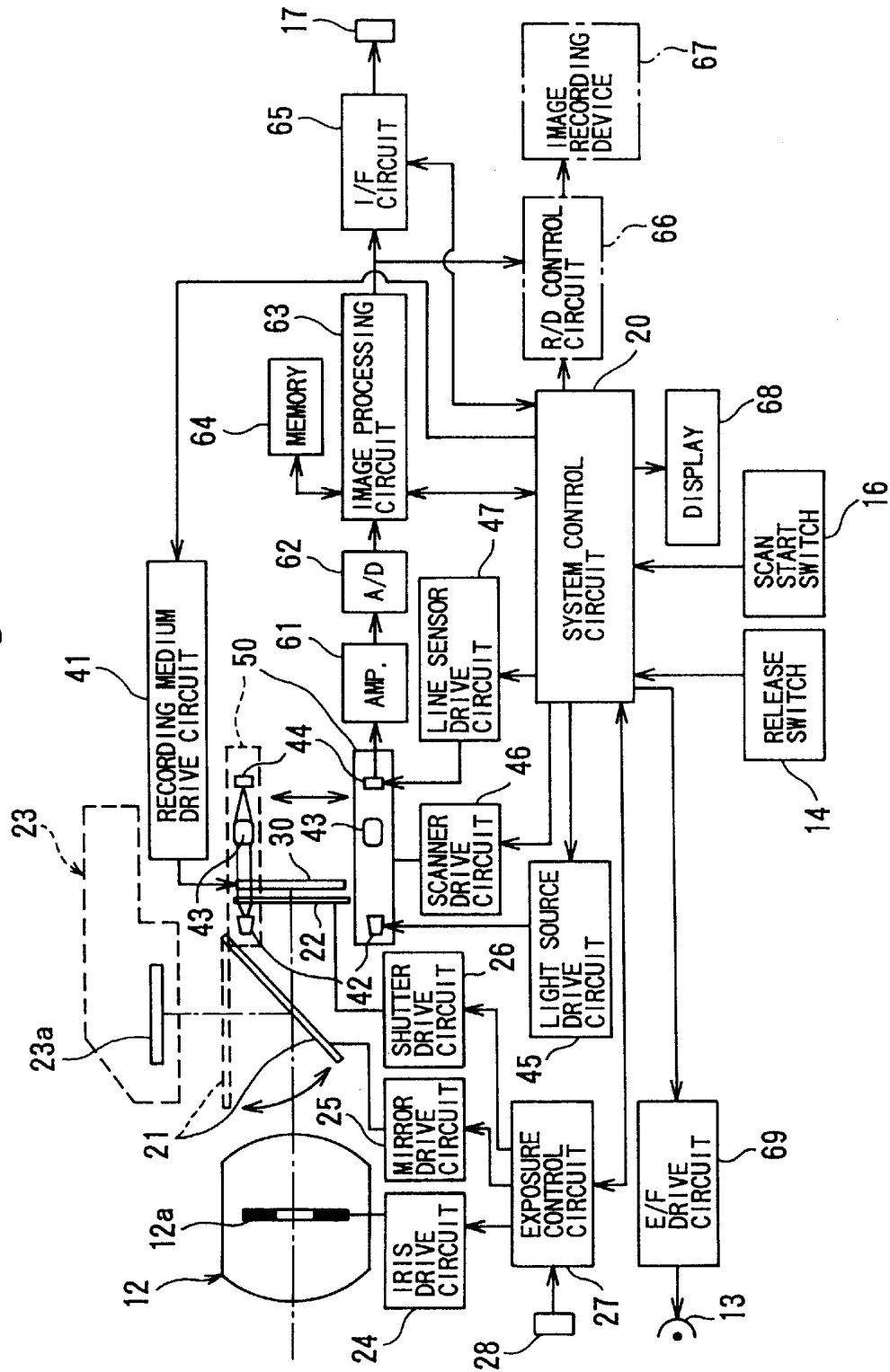
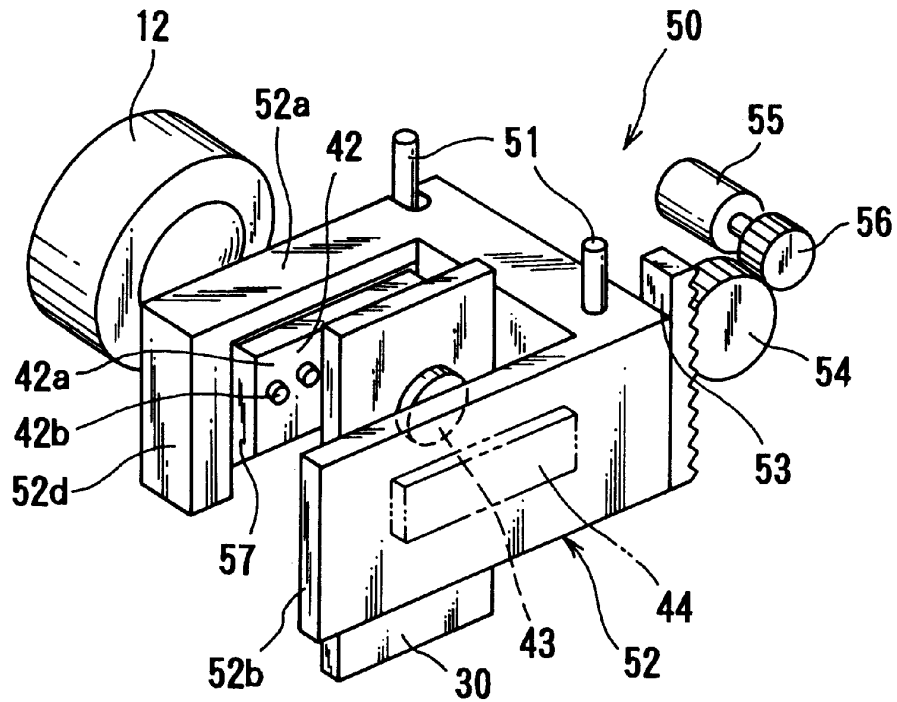


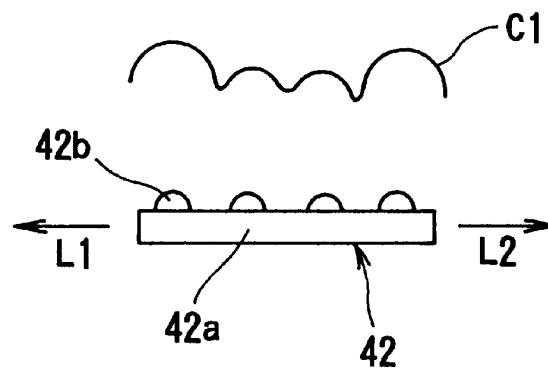
Fig. 2



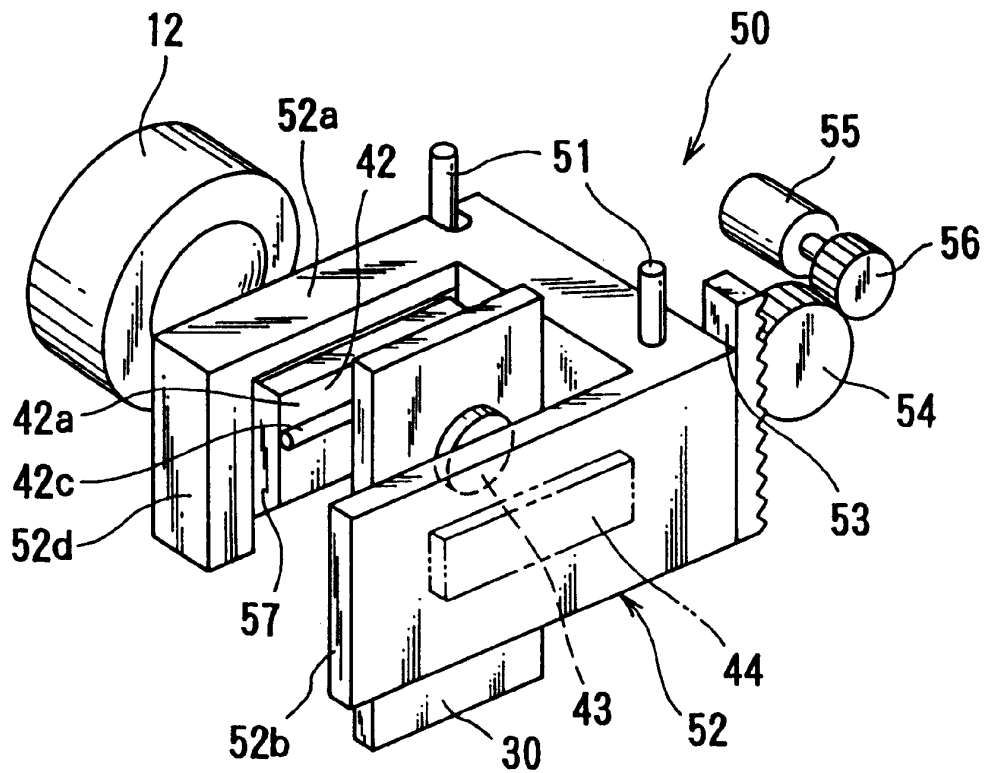
*Fig. 3*



*Fig. 5*



*Fig. 4*



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