

# United States Patent [19]

### **Kagle**

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**Date of Patent:** [45]

[11]

Nov. 14, 2000

[54]	AUTOMATIC IMAGE ROTATION IN
	DIGITAL CAMERAS

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Wash.

[21] Appl. No.: **09/085,144** 

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Int. Cl.<sup>7</sup> ...... G03B 17/00

[58]

396/374, 543, 13; 358/906, 909.1; 348/333, 239, 240, 231, 232

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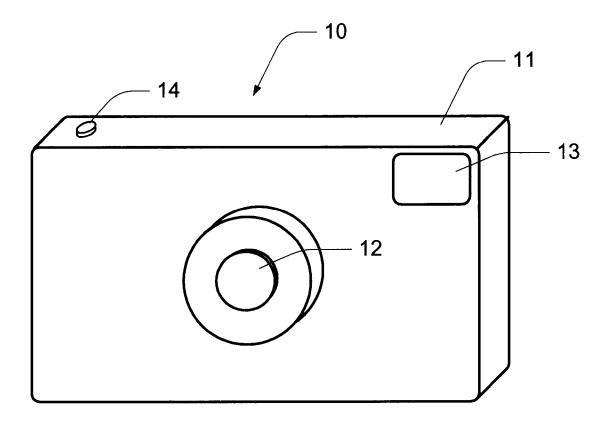
Primary Examiner—W. B. Perkey

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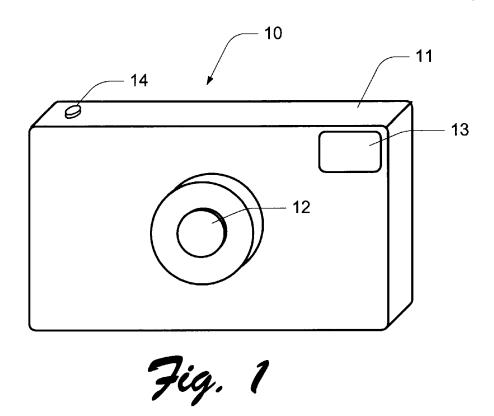
[57] **ABSTRACT** 

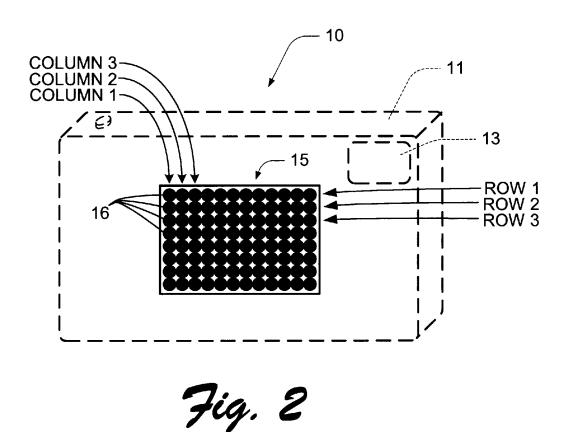
A digital camera comprises a controller and an image sensor that digitally captures an image. The camera also includes an orientation sensor, such as a mercury switch, that that indicates orientation of the image sensor whenever an image is captured. When capturing an image, the controller is configured to format the image in a way that it will be correctly oriented when displayed. In one embodiment, the camera automatically rotates the digital image to correct for different orientations of the camera.

#### 15 Claims, 4 Drawing Sheets









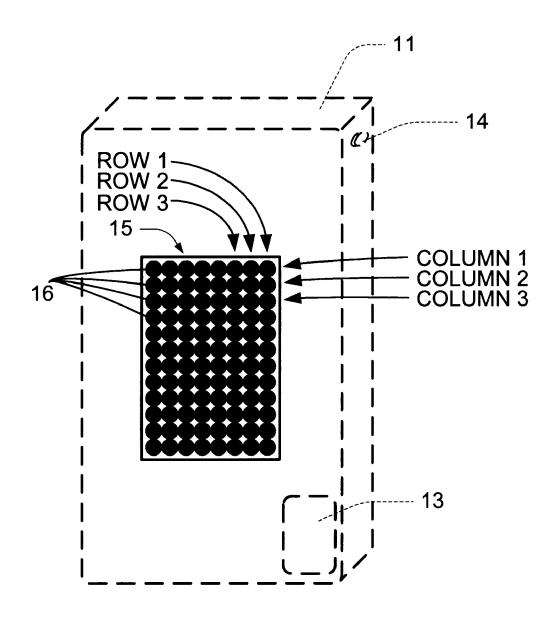


Fig. 3

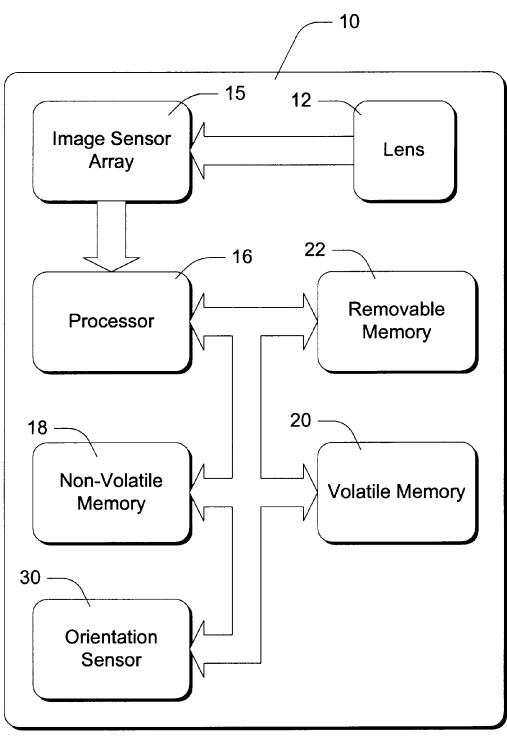
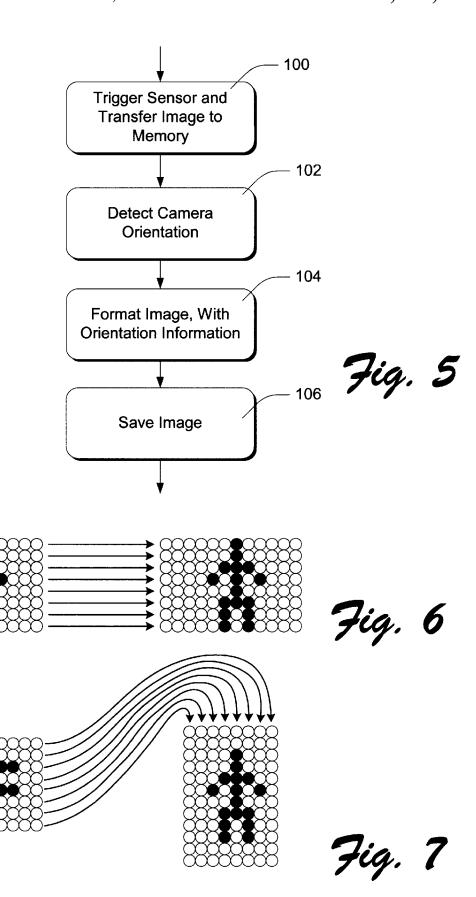


Fig. 4





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