



(19) **United States**

(12) **Patent Application Publication**  
**SUZUKI et al.**

(10) **Pub. No.: US 2013/0070128 A1**

(43) **Pub. Date: Mar. 21, 2013**

(54) **IMAGE PROCESSING DEVICE THAT PERFORMS IMAGE PROCESSING**

(52) **U.S. Cl.**  
USPC ..... **348/246; 348/E05.079**

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(57) **ABSTRACT**

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A digital camera (1) includes: an imaging unit (16) having an imaging element that includes a plurality of pixels, and generates a pixel value for each of the plurality of pixels as image data; a position specification unit (53) that specifies a position of a defective pixel among the plurality of pixels, in the image data generated by the imaging unit (16); a region specification unit (54) that specifies a region in the image data in which image noise occurs due to the defective pixel, based on the position specified by the position specification unit (53); and a correction unit (55) that corrects a pixel value of each of a plurality of pixels included in the region in the image data specified by the region specification unit (54), based on a weighted average of pixels values of a plurality of pixels located at a periphery of the region.

(21) Appl. No.: **13/608,197**

(22) Filed: **Sep. 10, 2012**

(30) **Foreign Application Priority Data**

Sep. 20, 2011 (JP) ..... 2011-205074

**Publication Classification**

(51) **Int. Cl.**  
**H04N 9/64** (2006.01)

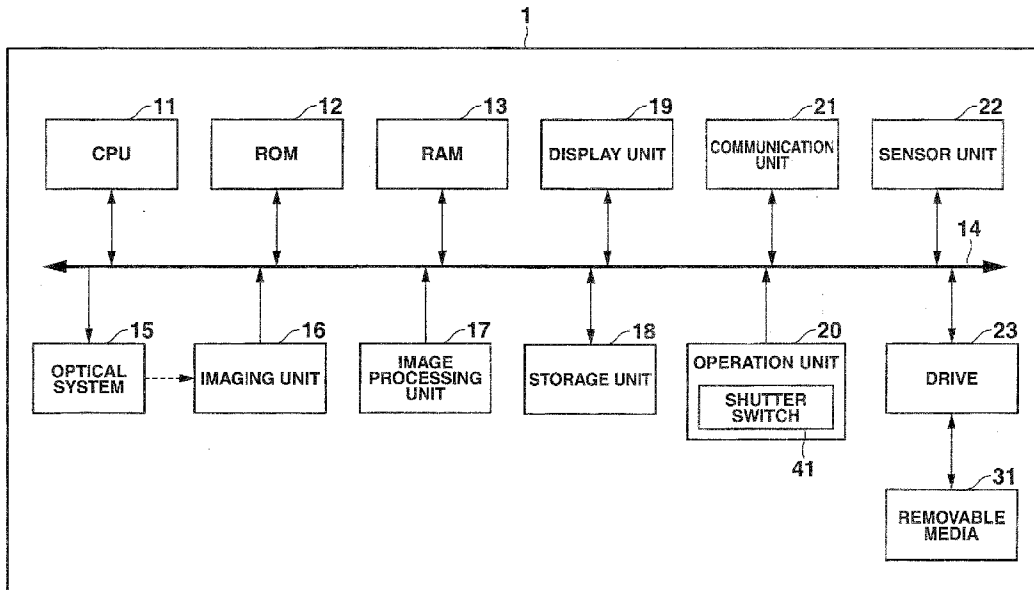


FIG. 1

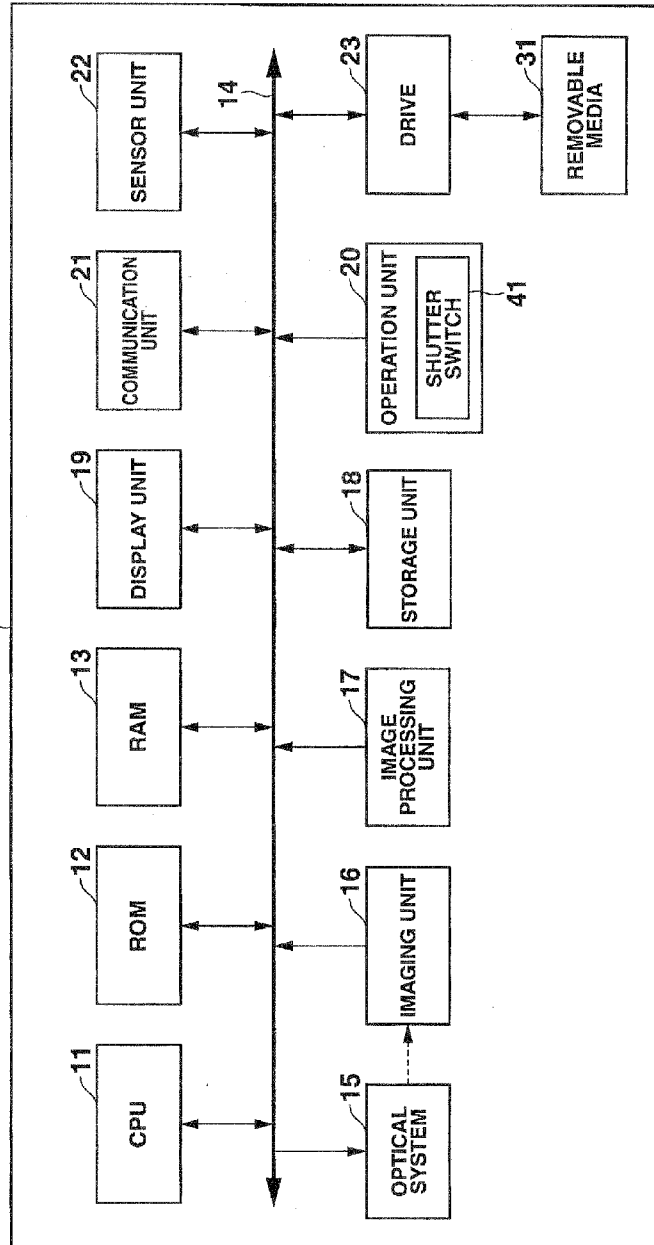


FIG.2

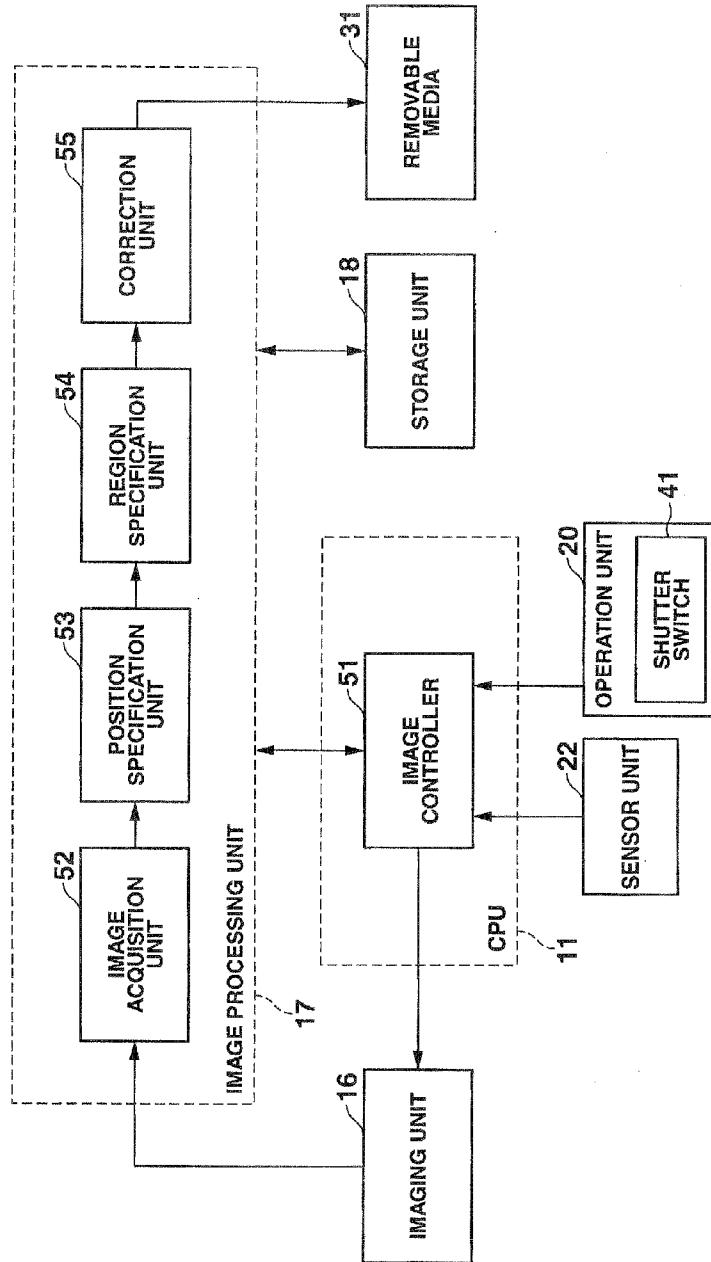


FIG.3

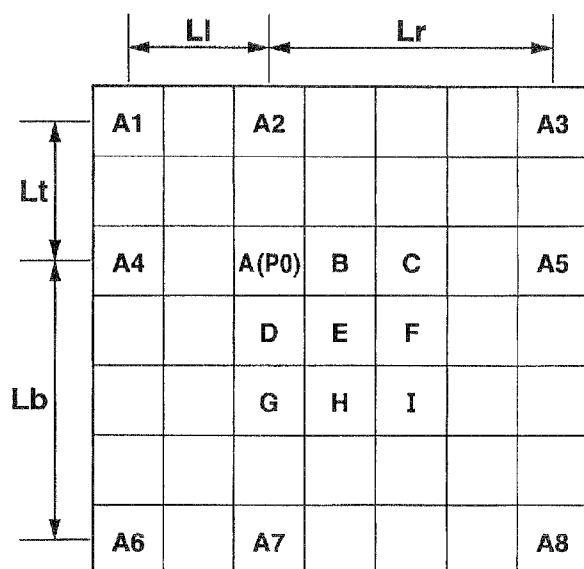
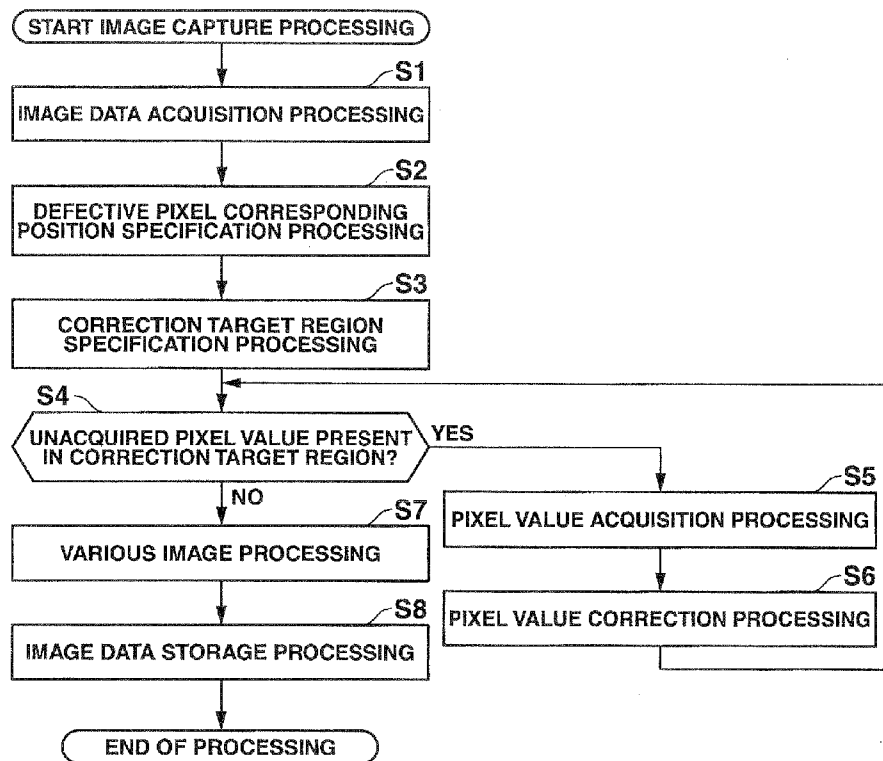


FIG.4



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