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(54) **COLOR IMAGING APPARATUS**

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(52) **U.S. Cl.**  
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USPC ..... **348/280**

(57) **ABSTRACT**

(21) Appl. No.: **14/501,949**

A color imaging apparatus comprising: a color imaging element comprising a plurality of pixels and color filters of a color filter array arranged on the plurality of pixels, the color filter array including first filters corresponding to a first color that most contributes to obtaining luminance signals and second filters corresponding to two or more second colors, and the first filters including two or more sections adjacent each other in horizontal, vertical, and oblique directions; a direction determination unit acquiring pixel values of pixels of the two or more sections of the first filters near a target pixel of demosaicking processing and determining a correlation direction of luminance; a demosaicking processing unit that calculates a pixel value of another color at a pixel position of the target pixel and that uses one or more pixels of another color in the correlation direction to calculate the pixel value.

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**Related U.S. Application Data**

(63) Continuation of application No. 13/560,458, filed on Jul. 27, 2012, now Pat. No. 8,878,970, which is a continuation of application No. PCT/JP2011/067420, filed on Jul. 29, 2011.

**Foreign Application Priority Data**

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Jul. 25, 2011 (JP) ..... 2011-162413

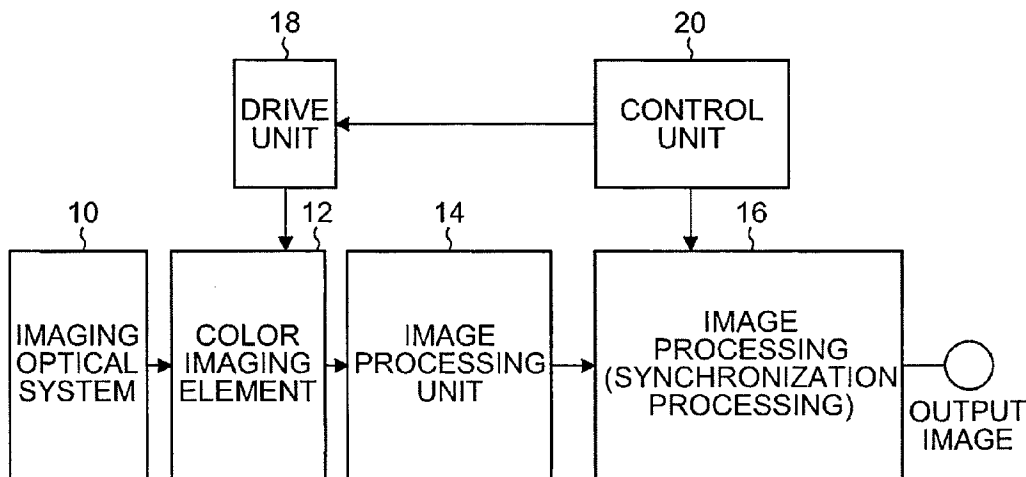


FIG.1

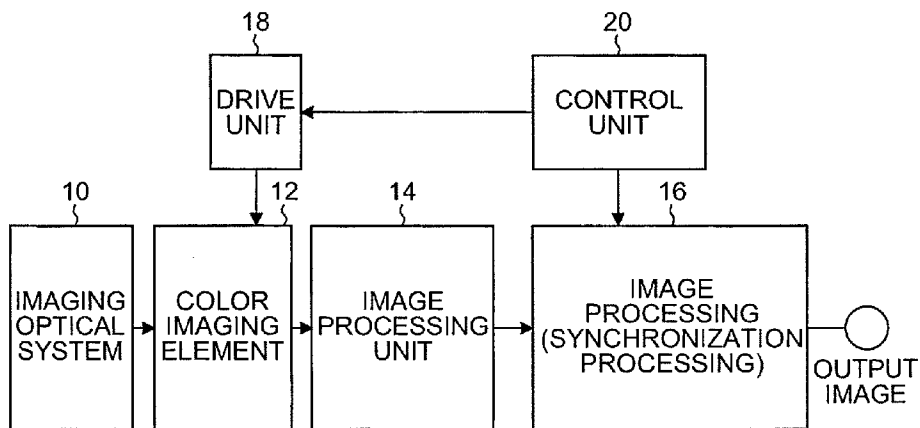


FIG.2

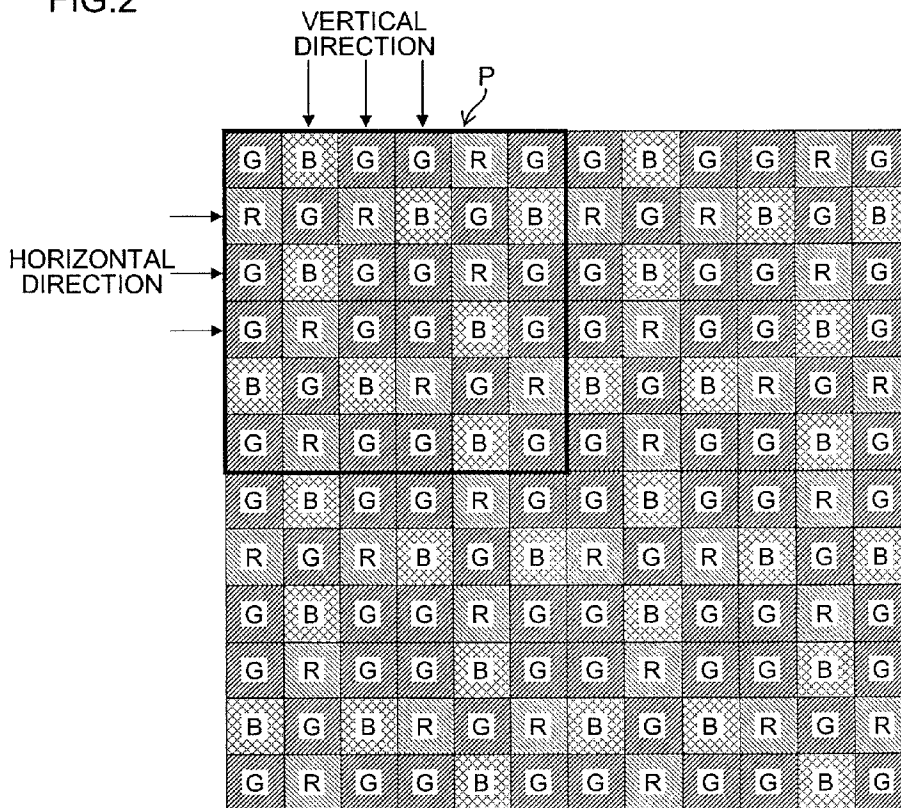


FIG.3

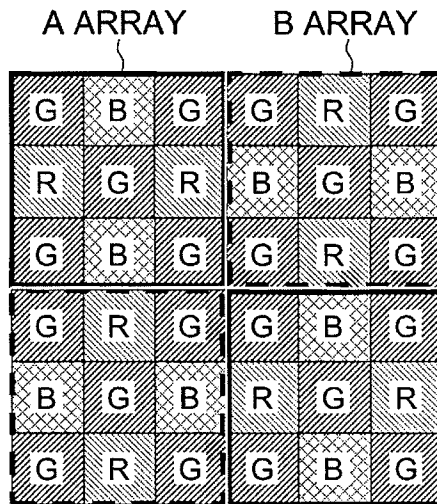


FIG.4

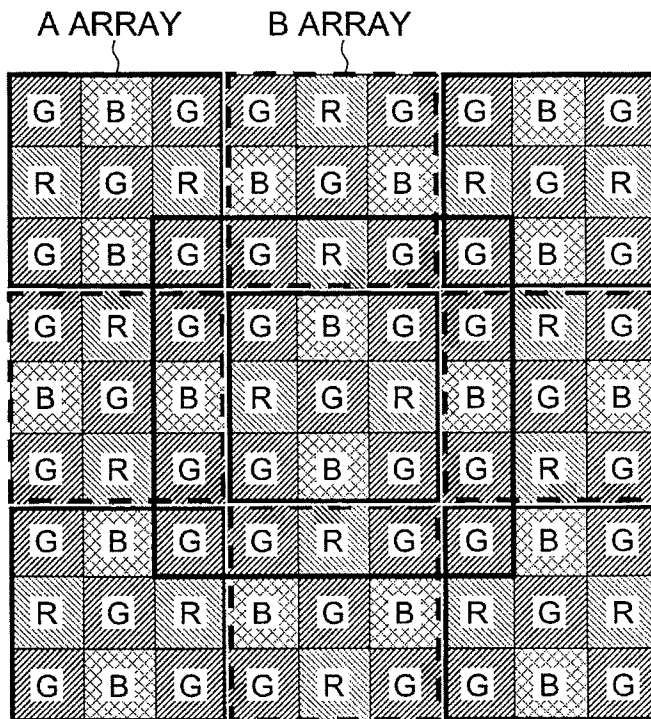


FIG.5

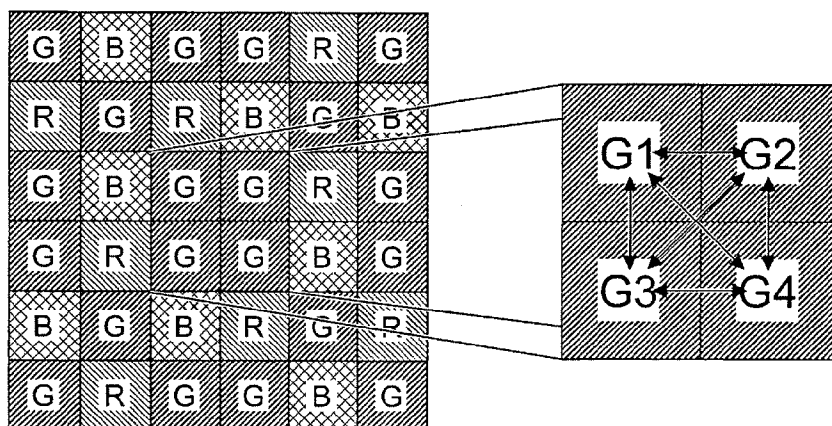


FIG.6

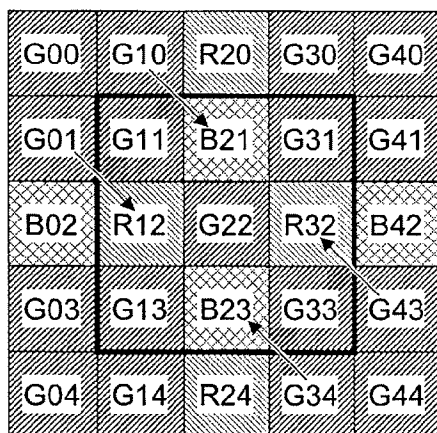


FIG.7A

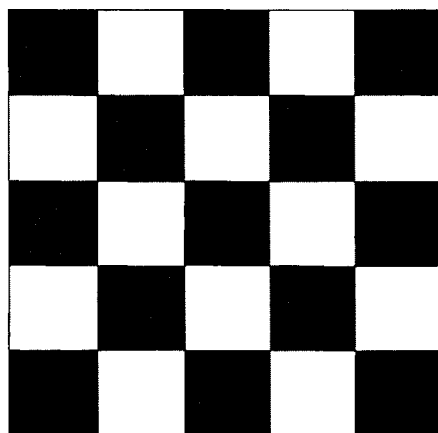


FIG.7B

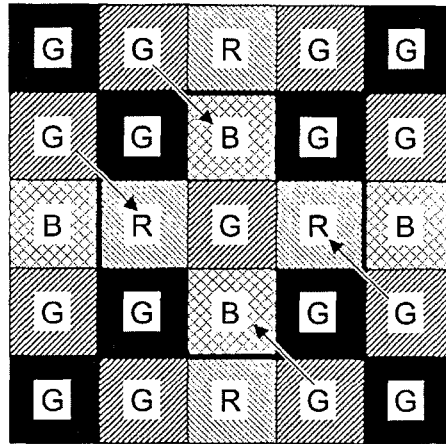
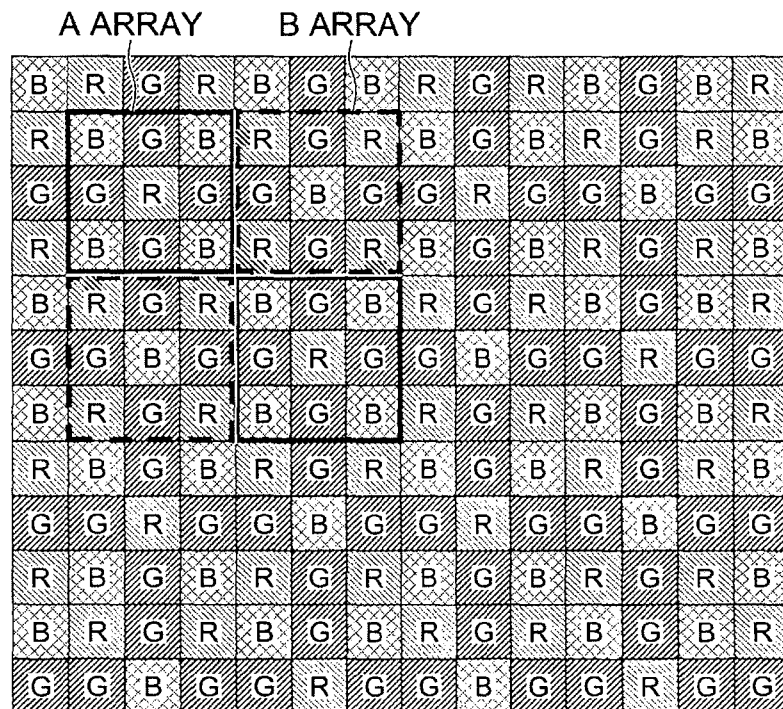


FIG.8





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