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(54) **METHOD AND APPARATUS FOR CONTROLLING A CAMERA MODULE TO COMPENSATE FOR THE LIGHT LEVEL OF A WHITE LED**

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(52) **U.S. Cl.** ..... **348/223.1; 348/E09.051**

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(57) **ABSTRACT**

A method and an apparatus enabling use of a light source emitting a light of changing intensity and changing spectrum as a flash with a camera module having a white-balance routine and an exposure routine, wherein an initial value representative of a color spectrum emitted by the light source is transmitted to the camera module, the light source is turned on, and the camera module is signaled to scan a plurality of images of the scene while the light source is turned on, allowing the white-balance and exposure algorithms to be employed with each image scanned to refine the first initial value to refine the degree of compensation employed in correcting a color and a light level in the last one of the images of the plurality of images scanned.

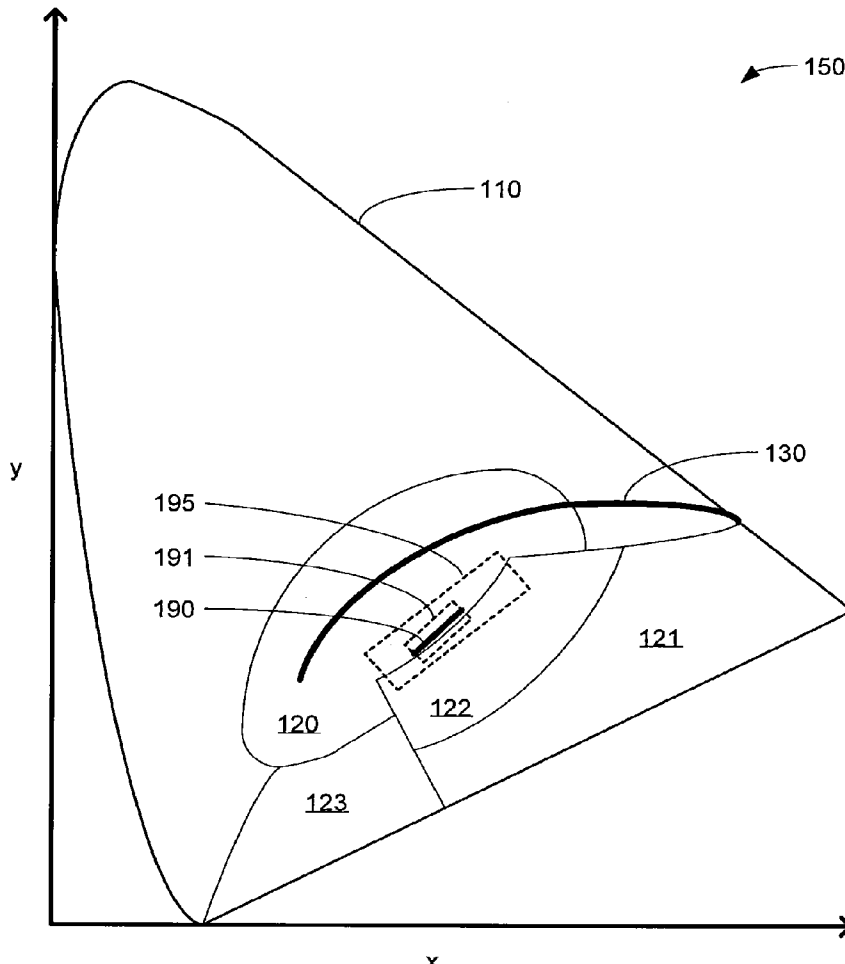
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**Related U.S. Application Data**

(63) Continuation of application No. 11/626,883, filed on Jan. 25, 2007, now Pat. No. 7,825,958.



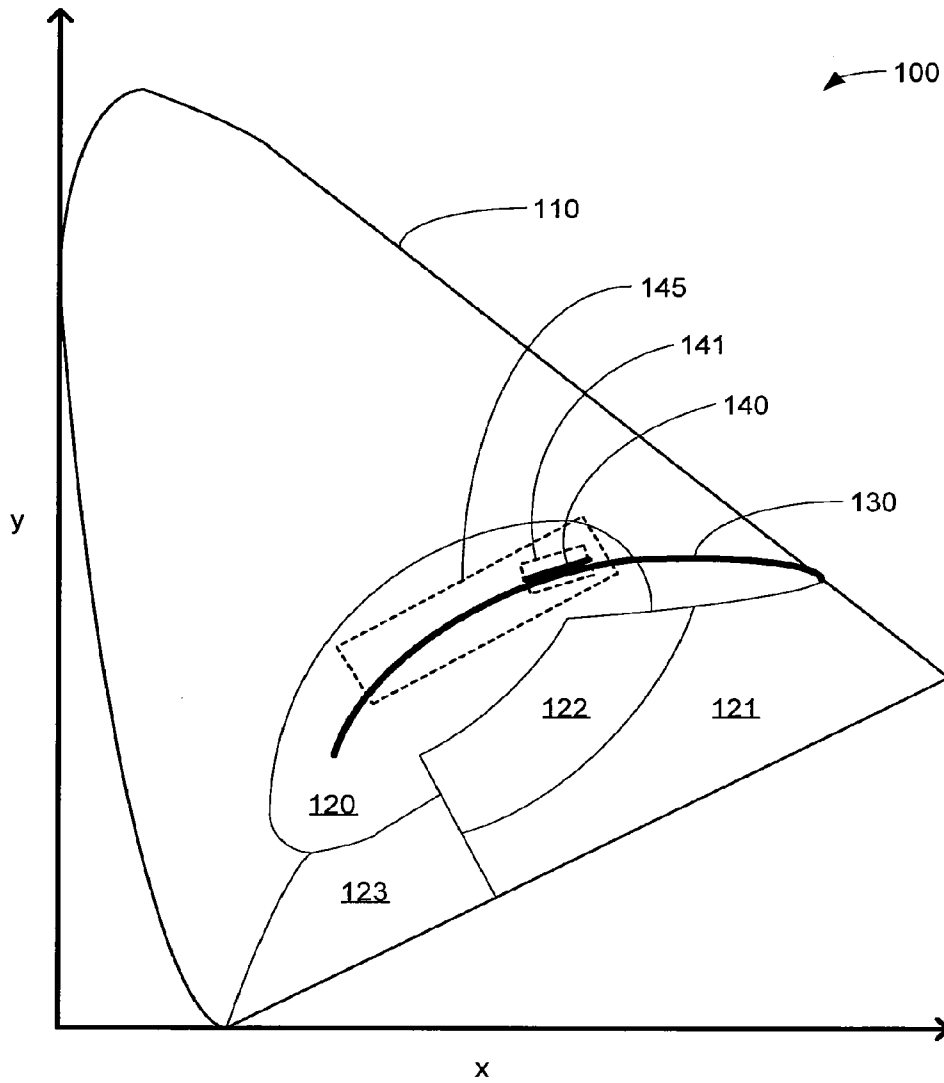


FIG. 1

PRIOR ART

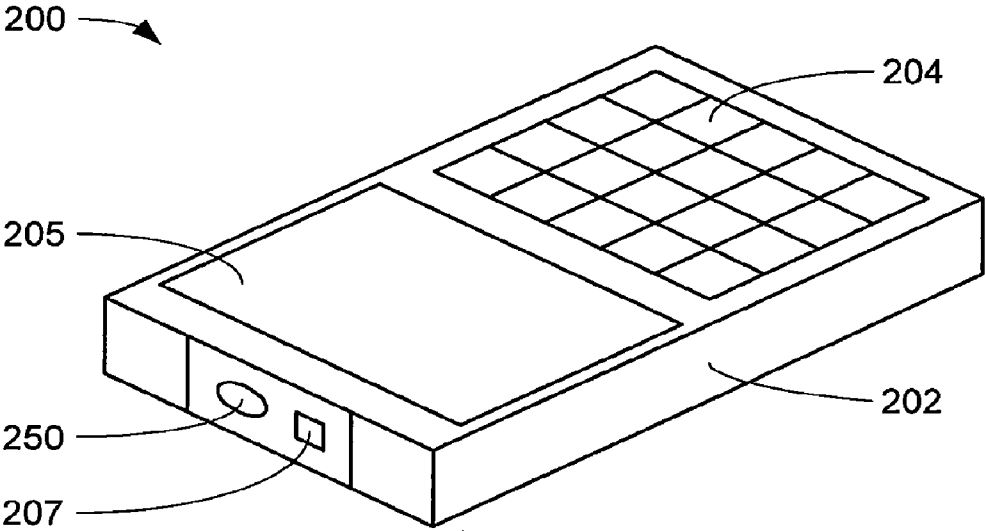


FIG. 2

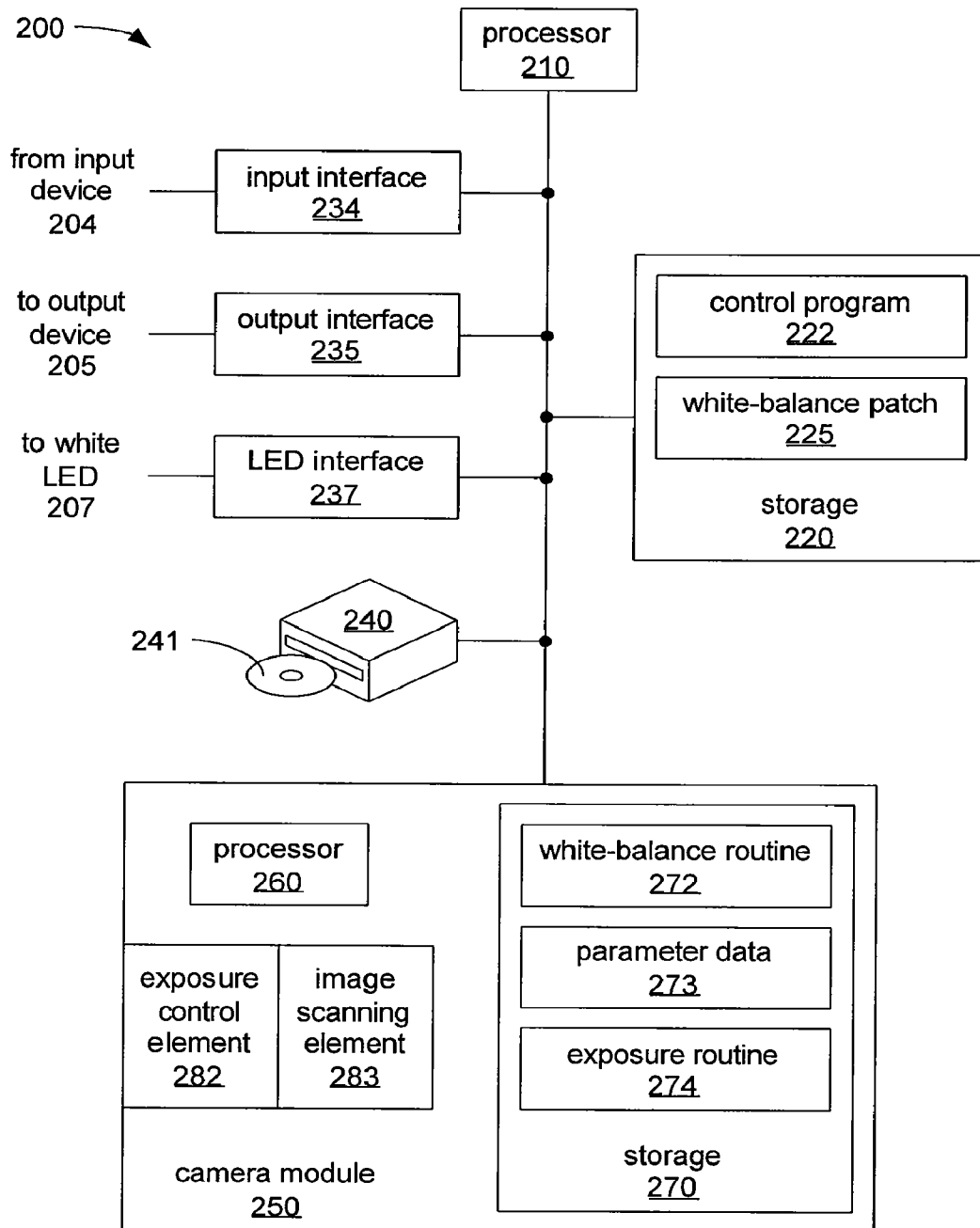


FIG. 3

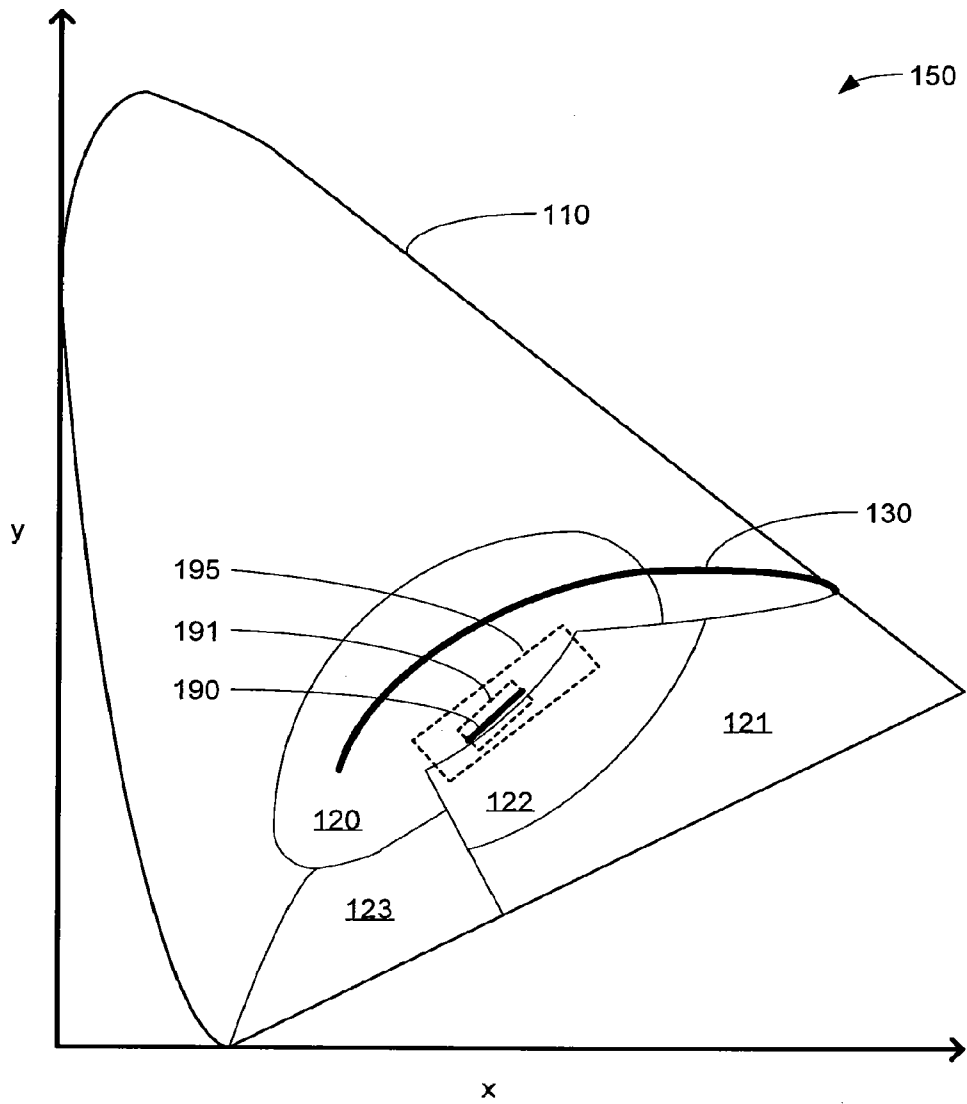


FIG. 4

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