

# Exhibit 6

**(12) United States Patent**  
**Whiteside**

**(10) Patent No.: US 6,516,147 B2**  
**(45) Date of Patent: Feb. 4, 2003**

(54) **SCENE RECOGNITION METHOD AND SYSTEM USING BRIGHTNESS AND RANGING MAPPING**

(58) **Field of Search** ..... 396/61, 165, 155, 396/157, 159, 195, 233, 234, 65, 100, 106, 121, 122, 123

(75) **Inventor:** George D. Whiteside, Lexington, MA (US)

(56) **References Cited**  
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(73) **Assignee:** Polaroid Corporation, Waltham, MA (US)

4,304,476 A \* 12/1981 Bloom ..... 396/155  
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(\* ) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

\* cited by examiner  
*Primary Examiner*—David M. Gray  
*Assistant Examiner*—Rochelle Blackman

(21) **Appl. No.:** 09/740,416

(57) **ABSTRACT**

(22) **Filed:** Dec. 19, 2000

A method of controlling exposure of a scene image comprising the following steps: sensing a scene for image data; deriving values representative of a brightness map of the scene; sensing the scene for image data; deriving values representative of a range map; comparing the range map with the scene brightness map; and controlling the exposure by controlling artificial illumination upon the scene. In an alternate aspect, a system is provided for controlling exposure of a scene image comprising the following elements: at least one sensor assembly; a source of artificial illumination; and a processing means.

(65) **Prior Publication Data**

US 2001/0031142 A1 Oct. 18, 2001

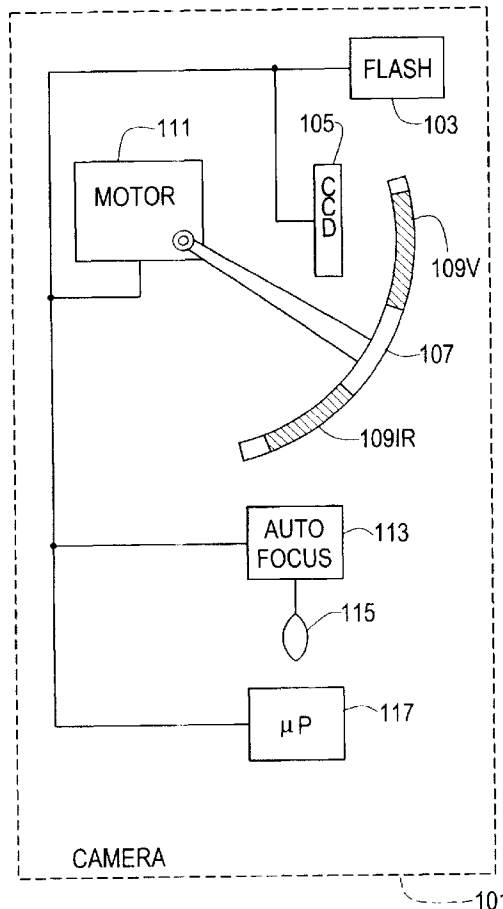
**Related U.S. Application Data**

(60) Provisional application No. 60/172,883, filed on Dec. 20, 1999.

(51) **Int. Cl.<sup>7</sup>** ..... G03B 15/02

(52) **U.S. Cl.** ..... 396/61; 396/100; 396/106; 396/159; 396/165; 396/187; 396/234

**10 Claims, 4 Drawing Sheets**



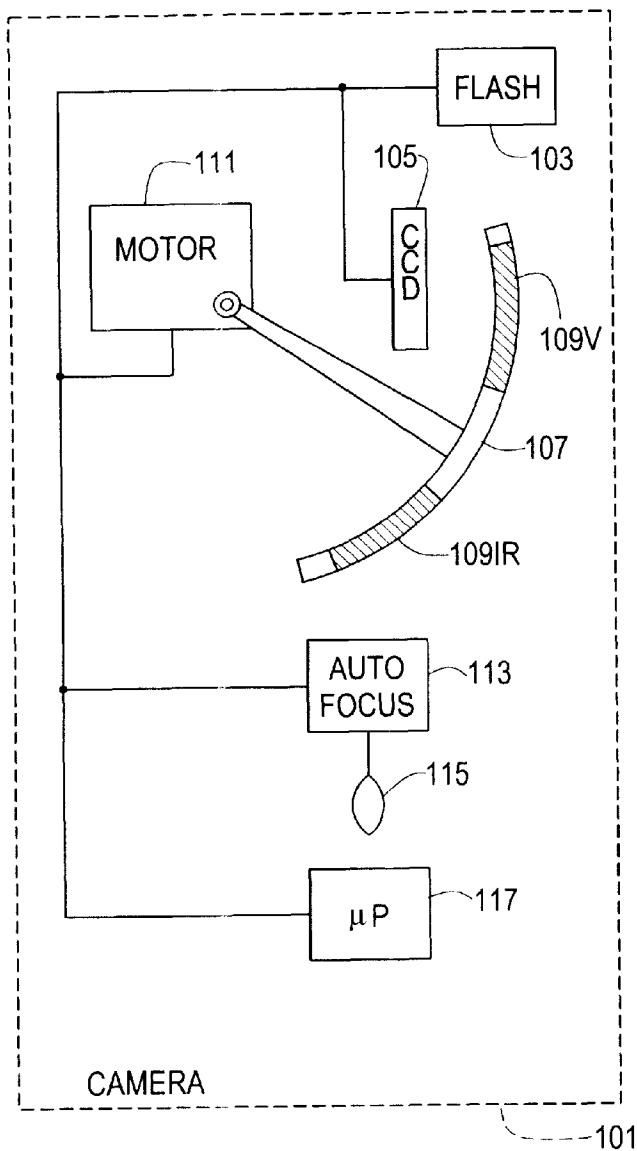


FIG. 1

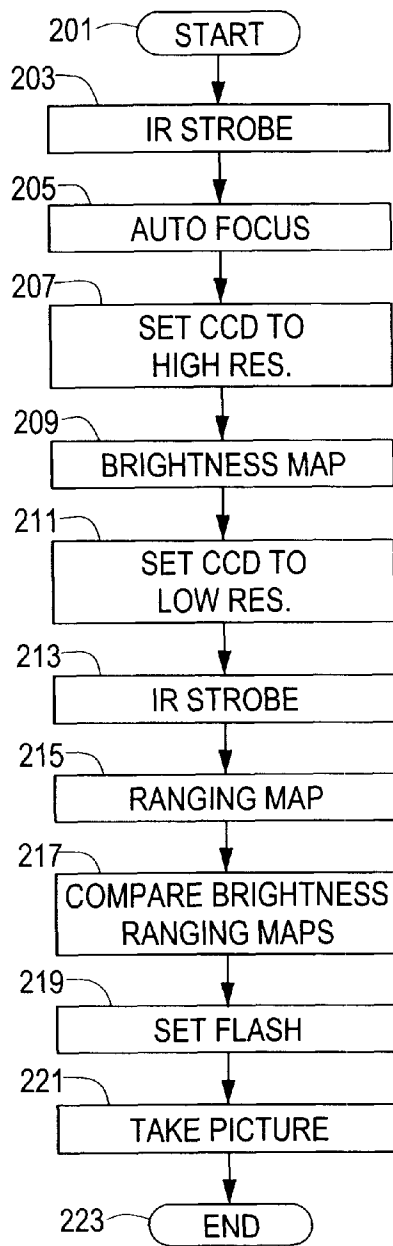
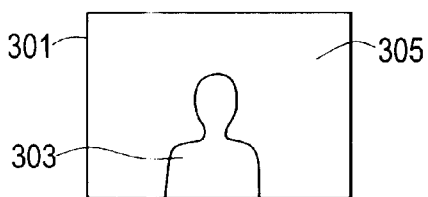
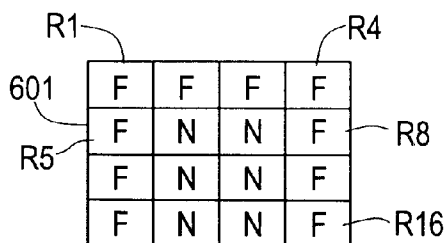


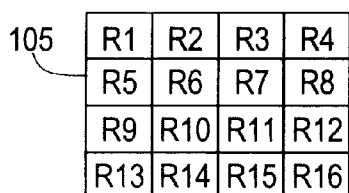
FIG. 2



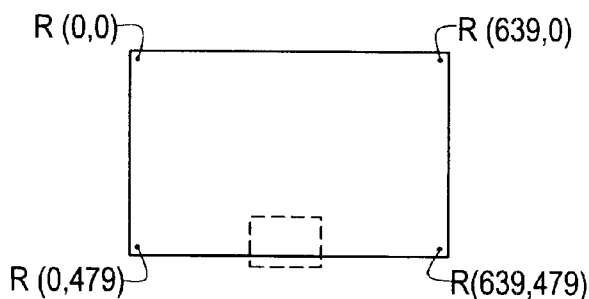
**FIG. 3**



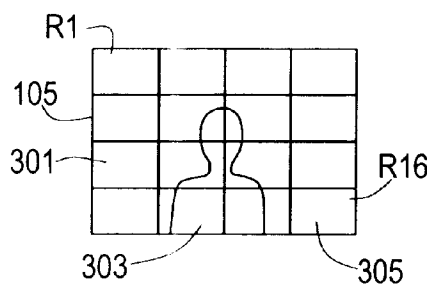
**FIG. 6**



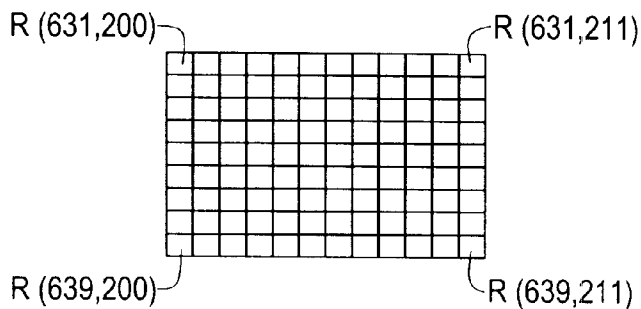
**FIG. 4**



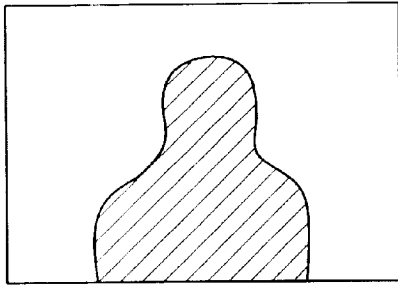
**FIG. 7A**



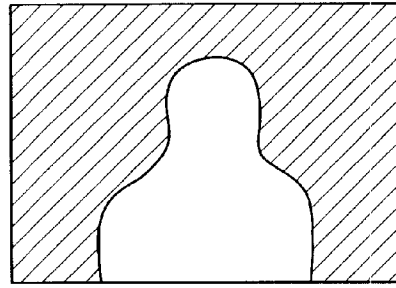
**FIG. 5**



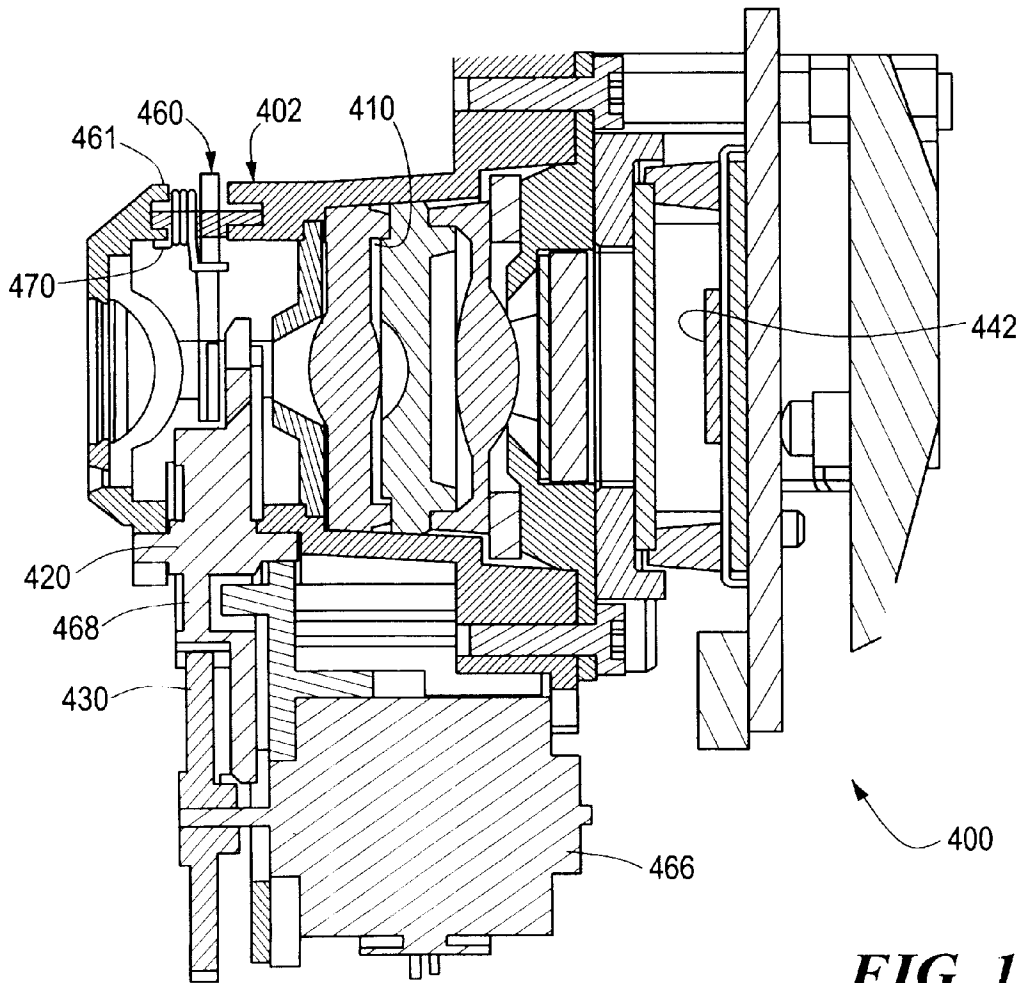
**FIG. 7B**



**FIG. 8**



**FIG. 9**



**FIG. 12**

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