



US005592256A

# United States Patent [19]

[11] **Patent Number:** 5,592,256

**Muramatsu**

[45] **Date of Patent:** Jan. 7, 1997

[54] **PHOTOMETRY DEVICE FOR A CAMERA**

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[73] Assignee: **Nikon Corporation**, Tokyo, Japan

[21] Appl. No.: **654,998**

[22] Filed: **May 29, 1996**

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*Assistant Examiner*—D. P. Malloy

### Related U.S. Application Data

[63] Continuation of Ser. No. 246,424, May 20, 1994, abandoned.

### Foreign Application Priority Data

Jun. 8, 1993 [JP] Japan ..... 5-163919

[51] **Int. Cl.<sup>6</sup>** ..... **G03B 7/08**

[52] **U.S. Cl.** ..... **396/225; 348/362; 348/366; 396/234**

[58] **Field of Search** ..... **354/430, 432; 348/362, 366**

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### [57] ABSTRACT

A photometric device for use in a camera includes, but is not limited to, a segmented brightness measuring unit which segments a photographic scene of a camera into multiple areas and which outputs corresponding multiple photometric values. A spectral analysis unit performs spectral analysis of the spatial frequency of a photographic subject using the corresponding multiple photometric values output by the segmented brightness measuring unit. Also, a photometric computation unit computes photometric values based on the spectral pattern of the photographic subject output by the spectral analysis unit. The spectral analysis unit may be disposed within the photometric device, or may be located elsewhere in a camera's body.

**20 Claims, 4 Drawing Sheets**

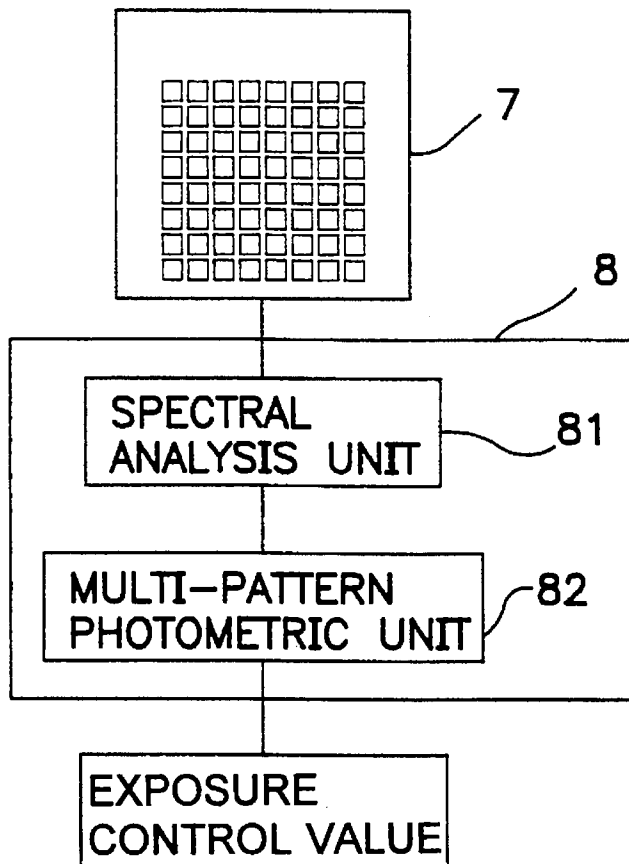


FIG. 1

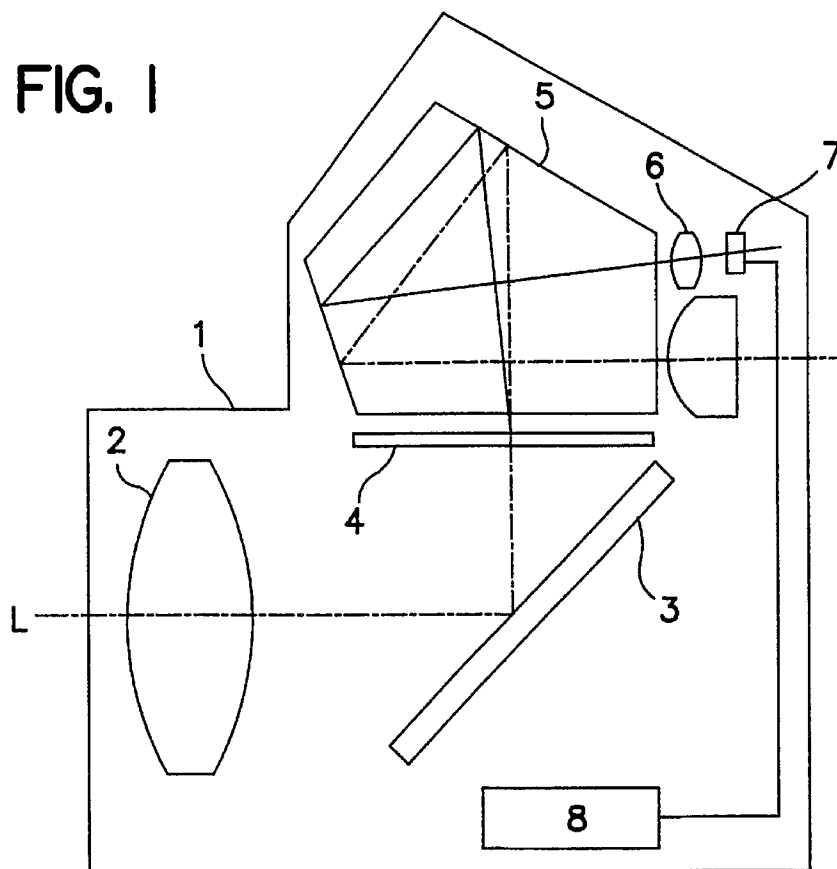


FIG. 2

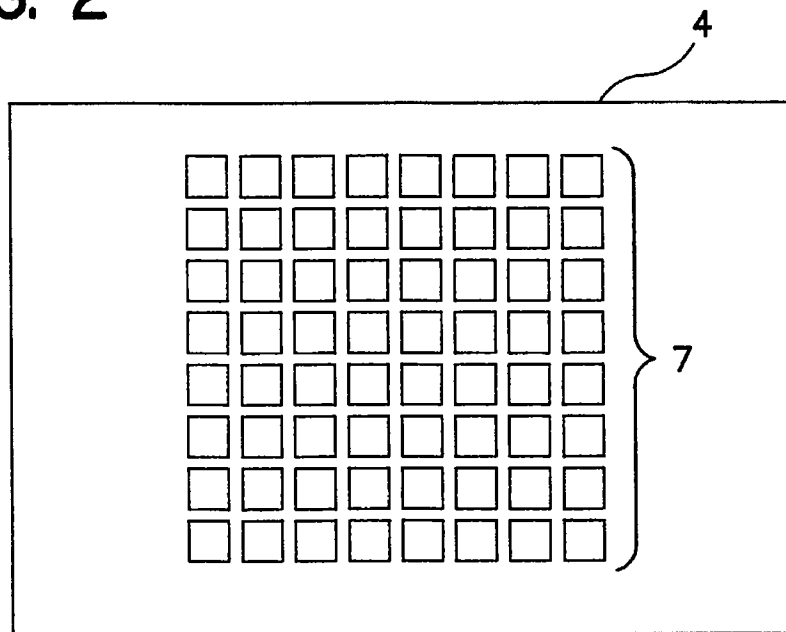


FIG. 3

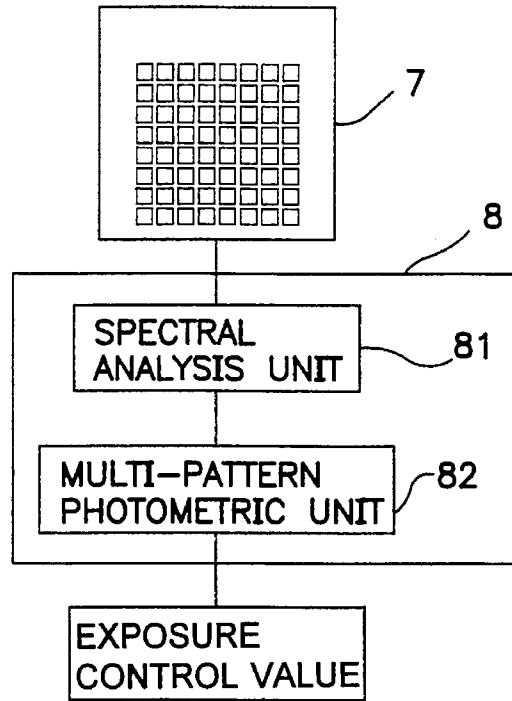


FIG. 4

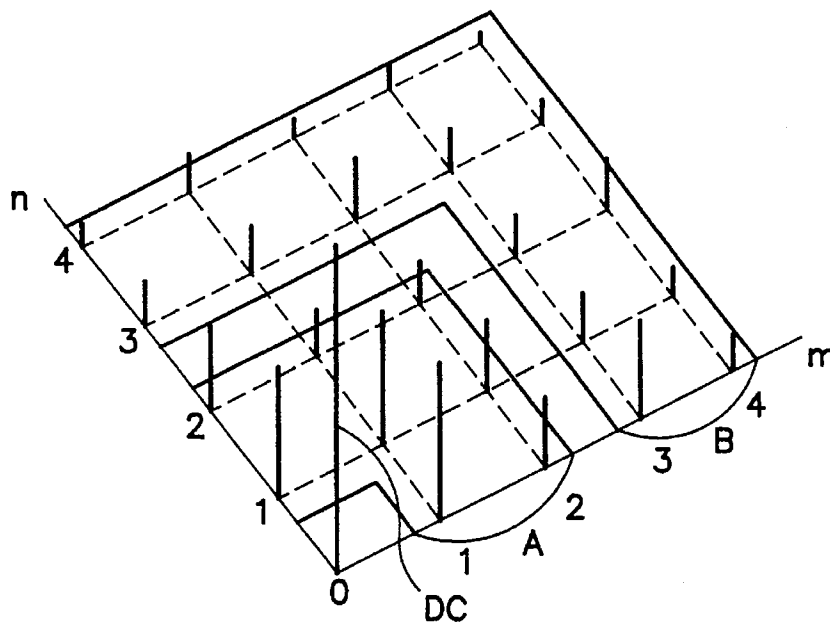


FIG. 5

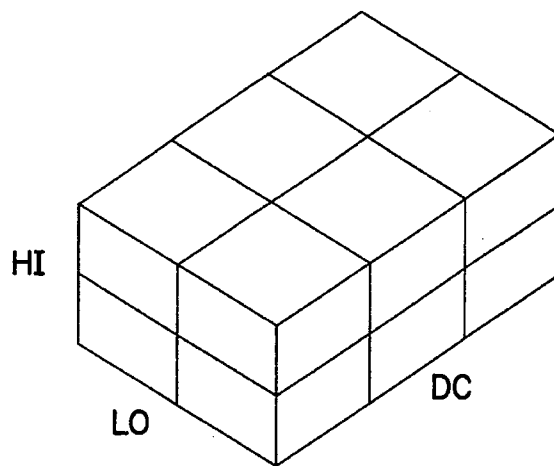


FIG. 6

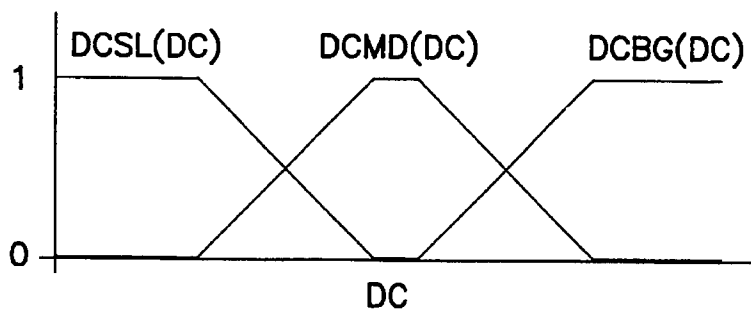


FIG. 7

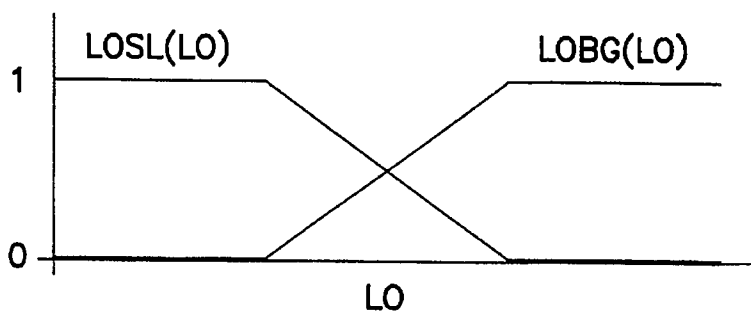
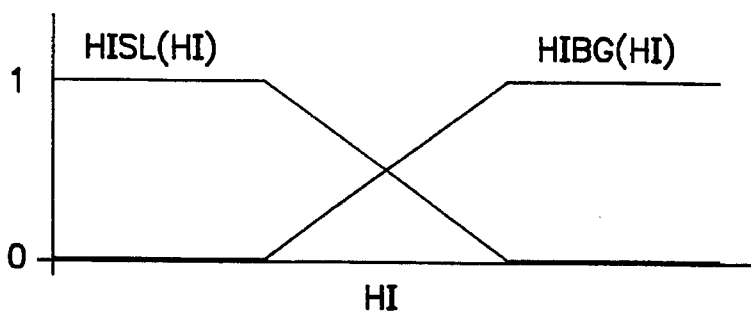


FIG. 8



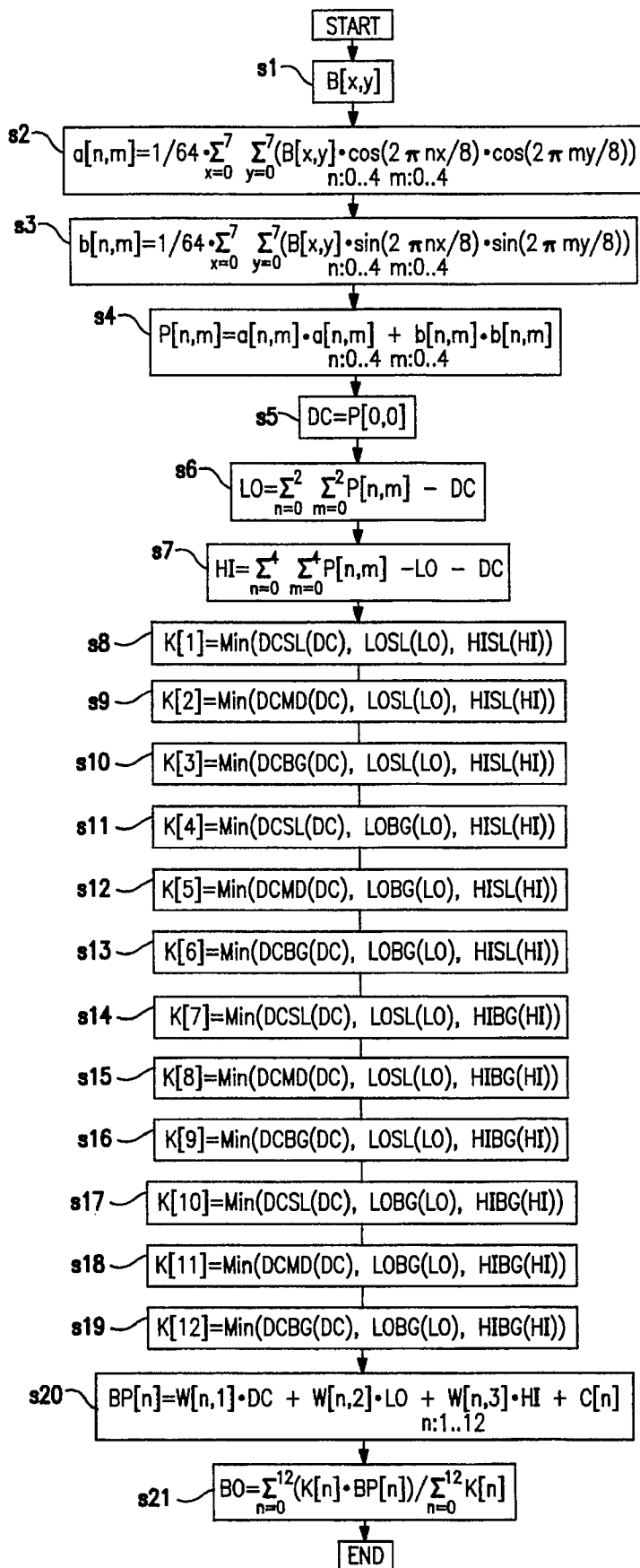


FIG. 9

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