

**United States Patent** [19]  
**Muramatsu**

[11] **Patent Number:** **5,592,256**  
 [45] **Date of Patent:** **Jan. 7, 1997**

[54] <b>PHOTOMETRY DEVICE FOR A CAMERA</b>	4,797,942	1/1989	Burt .....	382/41
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[75] Inventor: <b>Masaru Muramatsu, Kawasaki, Japan</b>	5,233,517	8/1993	Jindra .....	364/413.13
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[73] Assignee: <b>Nikon Corporation, Tokyo, Japan</b>	5,266,984	11/1993	Muramatsu et al. .	
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[21] Appl. No.: **654,998**

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

*Primary Examiner*—Safet Metjahic  
*Assistant Examiner*—D. P. Malloy

**Related U.S. Application Data**

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

[30] **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**

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

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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**

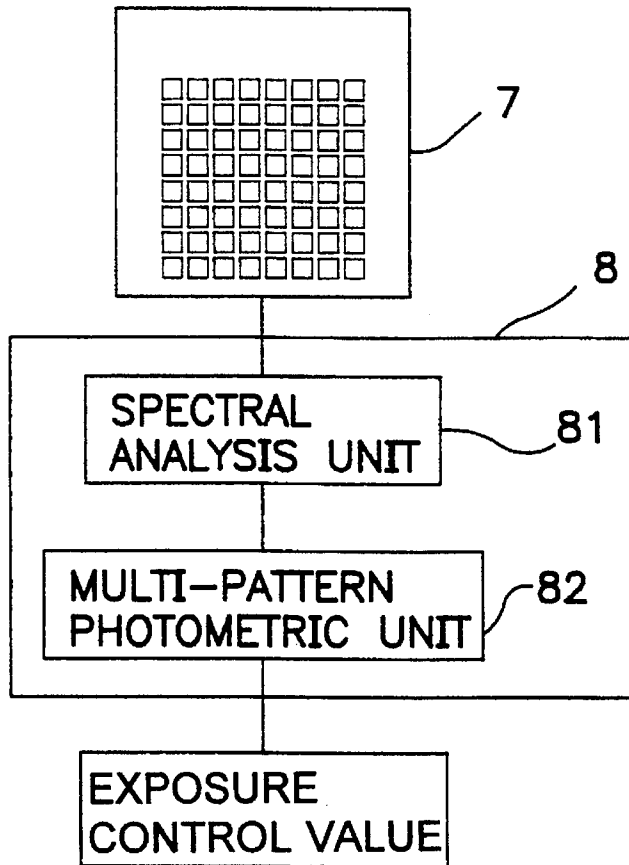


FIG. 1

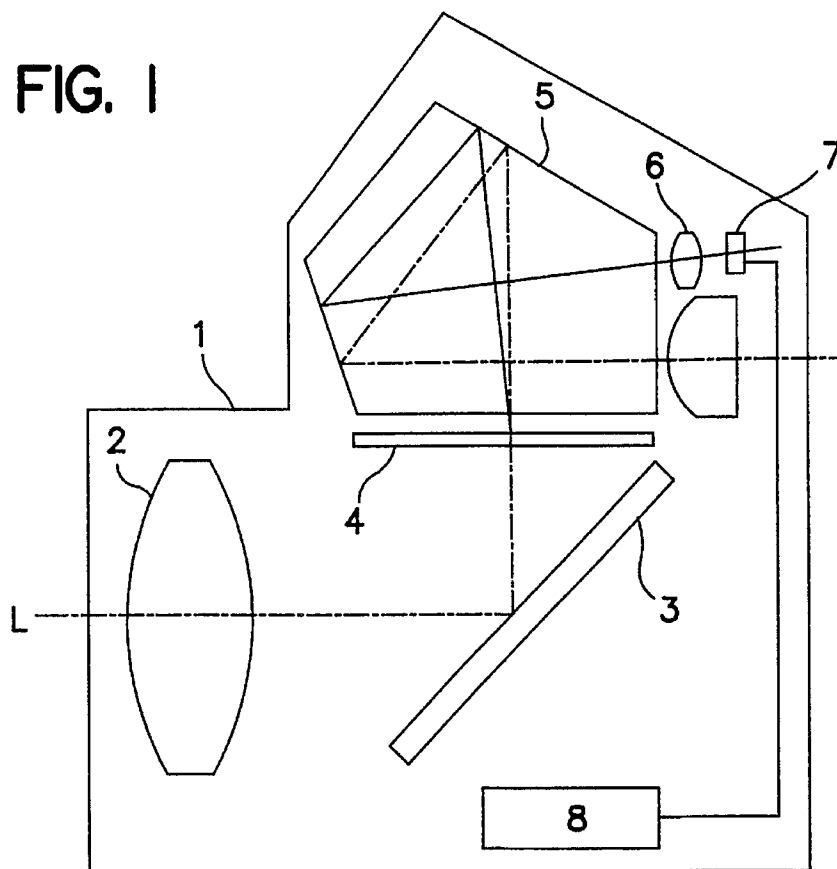


FIG. 2

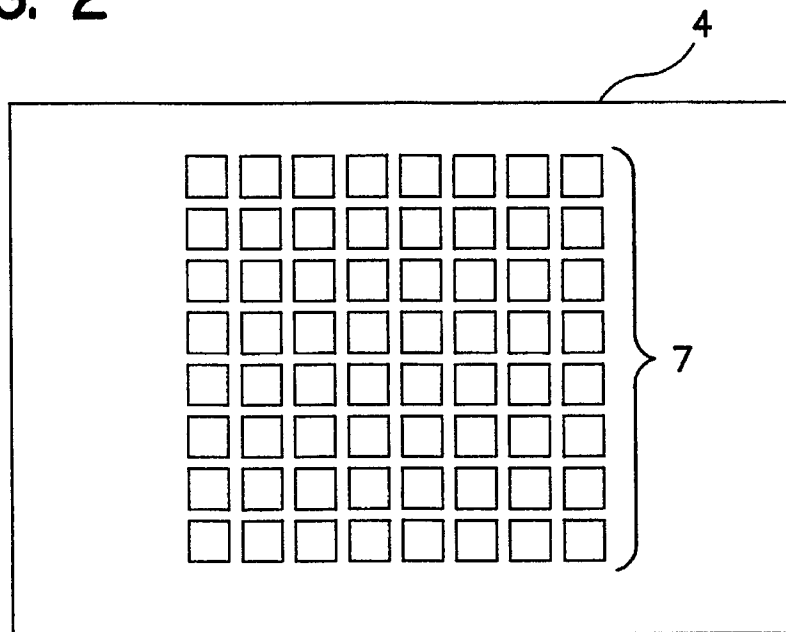


FIG. 3

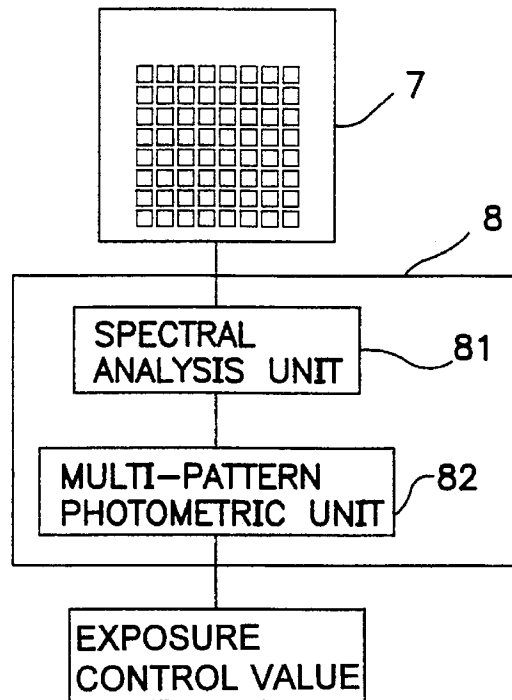


FIG. 4

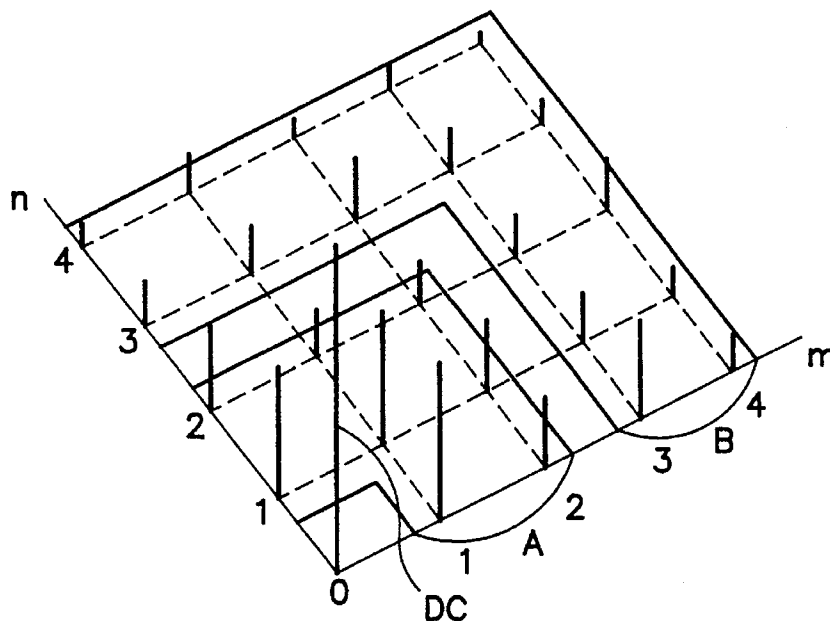


FIG. 5

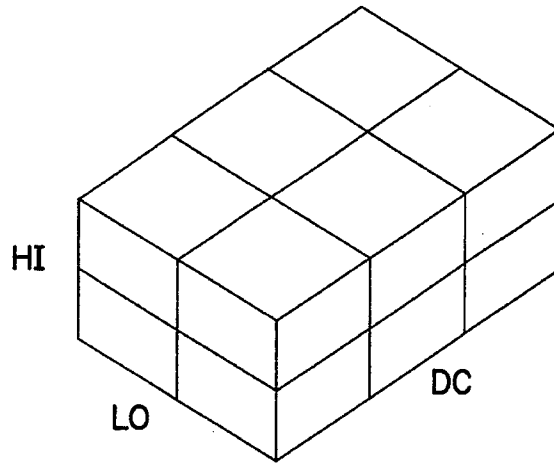


FIG. 6

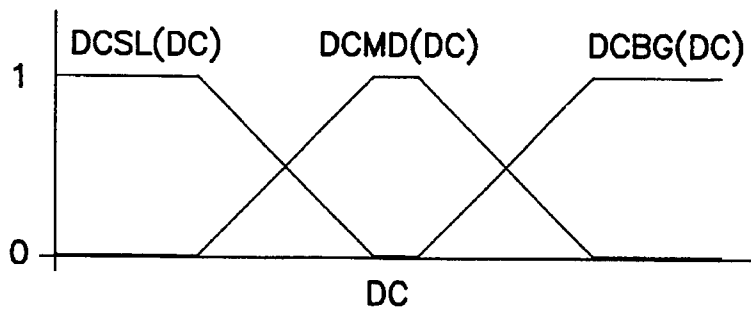


FIG. 7

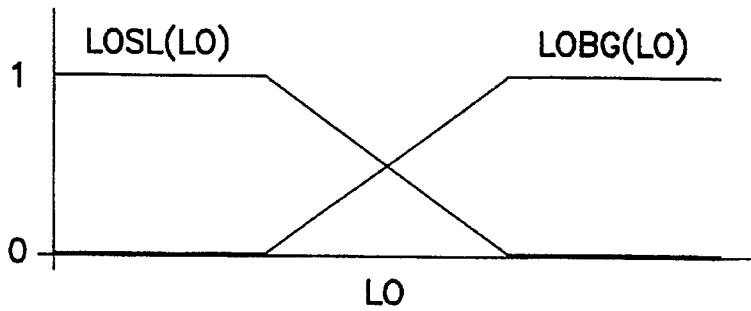
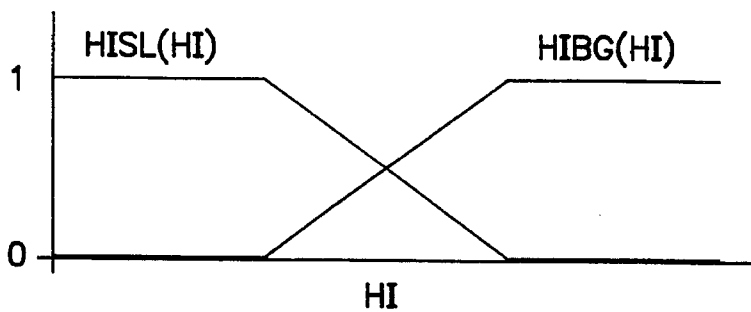


FIG. 8



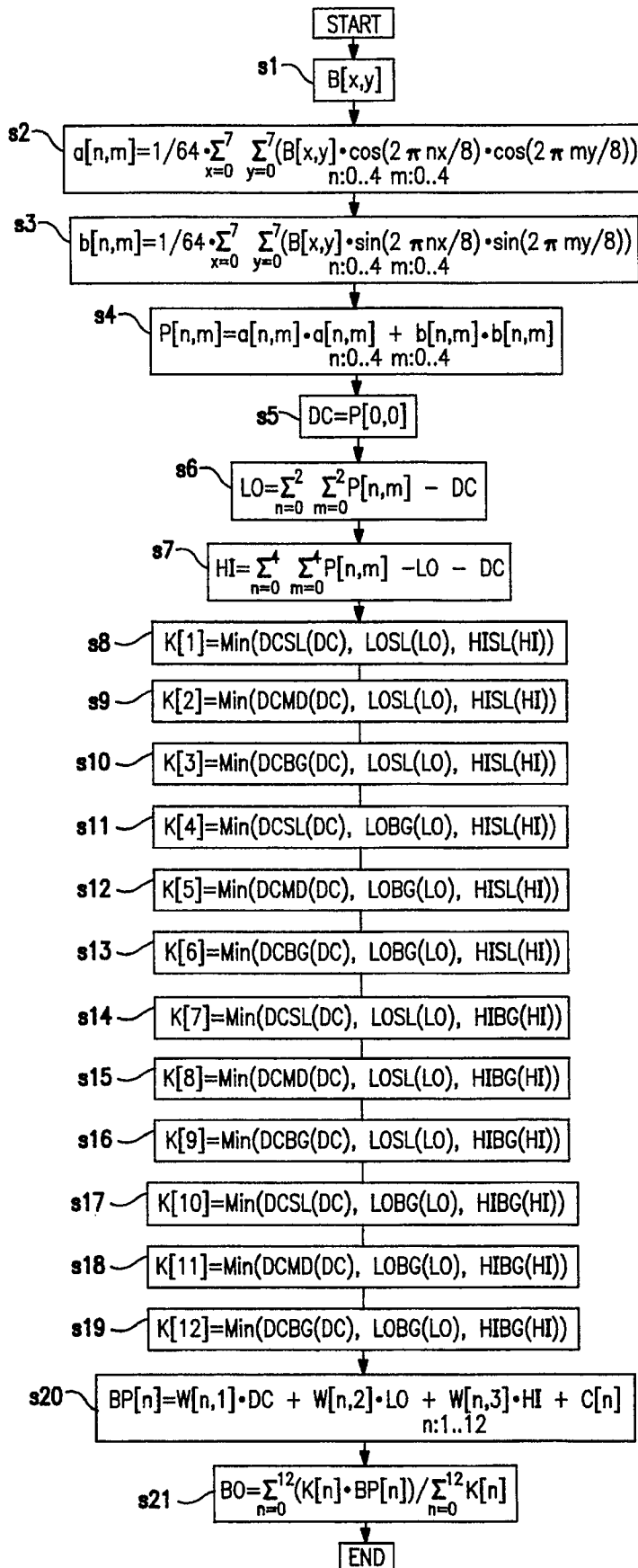


FIG. 9

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