



US005666157A

# United States Patent [19]

Aviv

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[54] **ABNORMALITY DETECTION AND SURVEILLANCE SYSTEM**

[75] Inventor: **David G. Aviv, New York, N.Y.**

[73] Assignee: **ARC Incorporated, New York, N.Y.**

[21] Appl. No.: **367,712**

[22] Filed: **Jan. 3, 1995**

[51] Int. Cl.<sup>6</sup> ..... **H04N 7/18**

[52] U.S. Cl. .... **348/152; 348/150; 348/154; 348/155; 348/161**

[58] Field of Search ..... **348/143, 161, 348/150, 154, 155, 152; H04N 7/18**

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*Primary Examiner*—Howard W. Britton  
*Attorney, Agent, or Firm*—Darby & Darby

## [57] ABSTRACT

A surveillance system having at least one primary video camera for translating real images of a zone into electronic video signals at a first level of resolution. The system includes means for sampling movements of an individual or individuals located within the zone from the video signal output from at least one video camera. Video signals of sampled movements of the individual is electronically compared with known characteristics of movements which are indicative of individuals having a criminal intent. The level of criminal intent of the individual or individuals is then determined and an appropriate alarm signal is produced.

**4 Claims, 5 Drawing Sheets**

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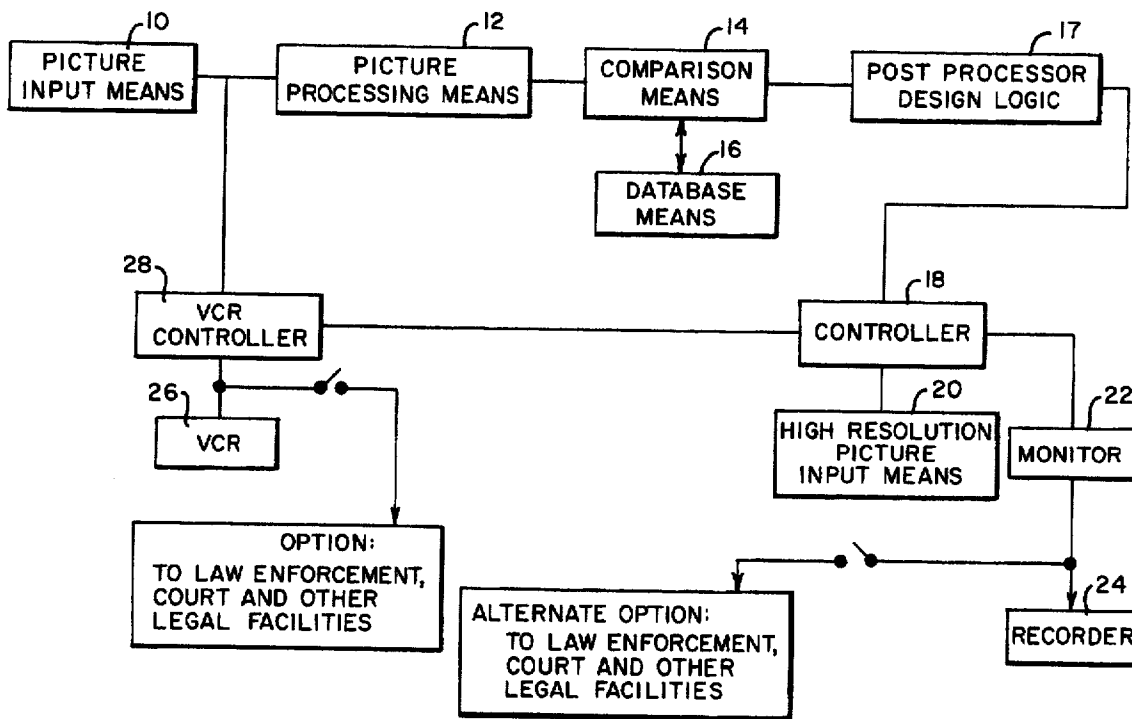
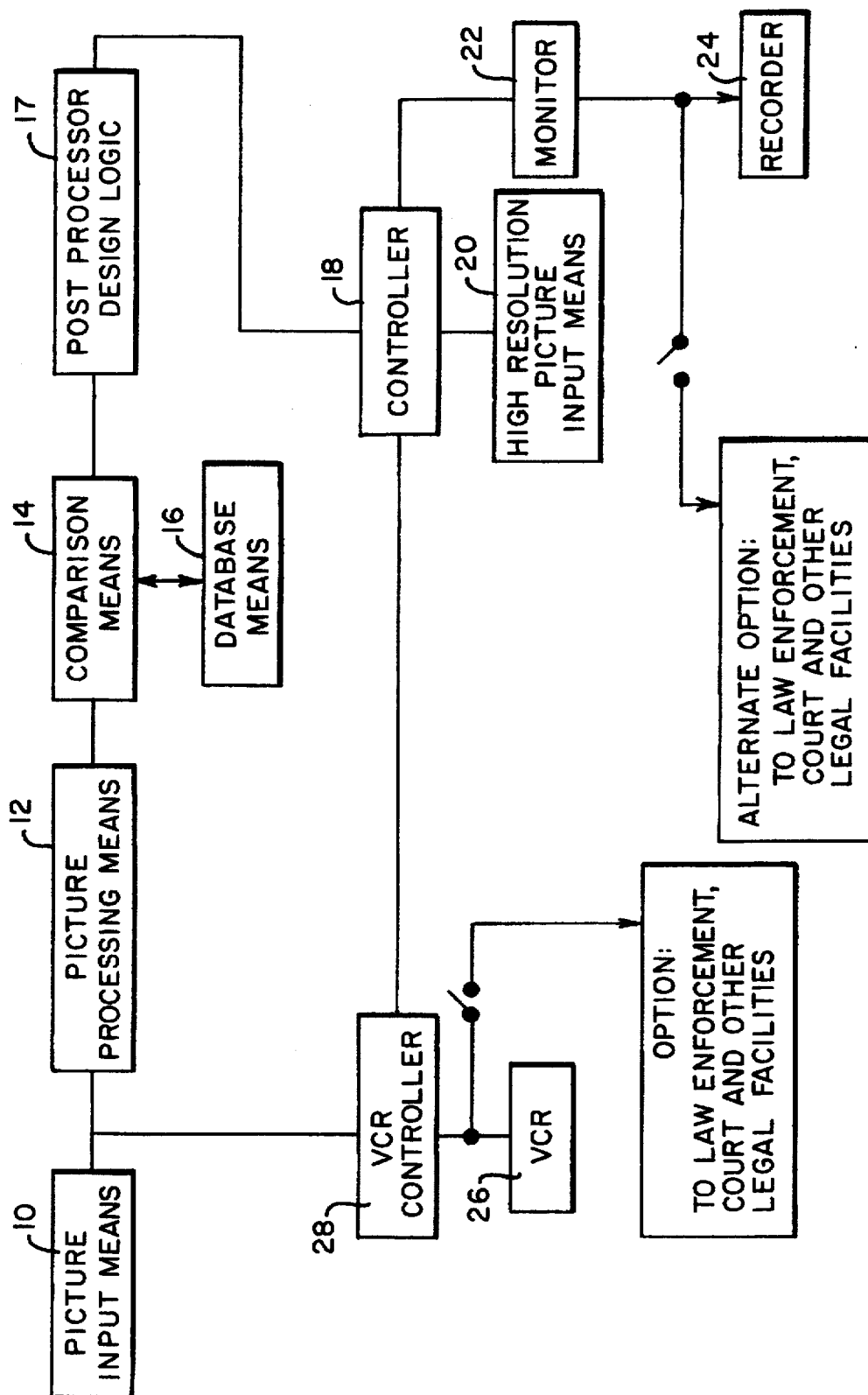
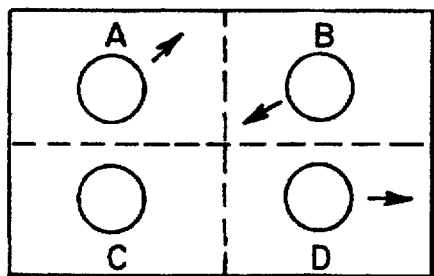


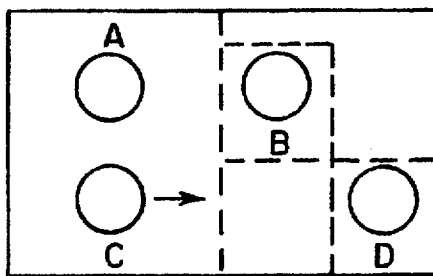
FIG. 1



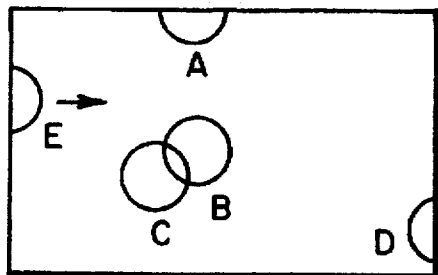
**FIG. 2A**



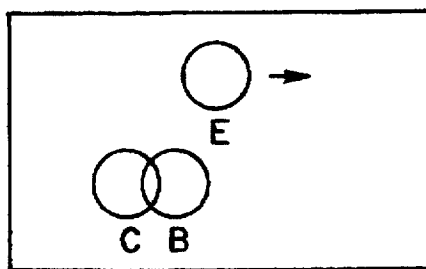
**FIG. 2B**



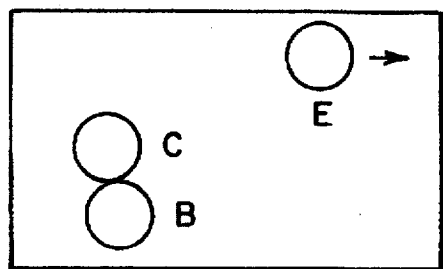
**FIG. 2C**



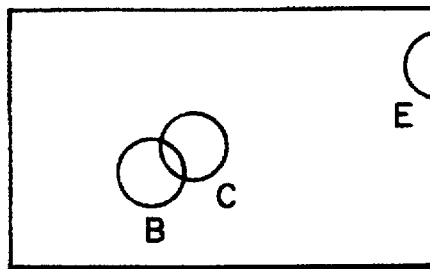
**FIG. 2D**



**FIG. 2E**



**FIG. 2F**



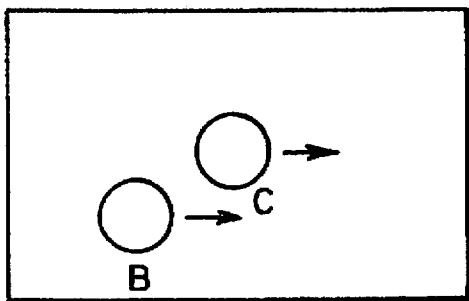


FIG. 2G

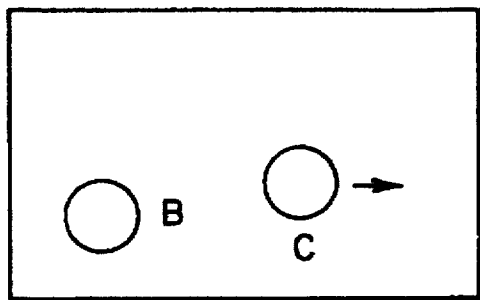


FIG. 2H

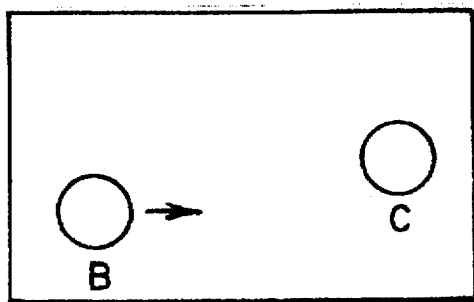
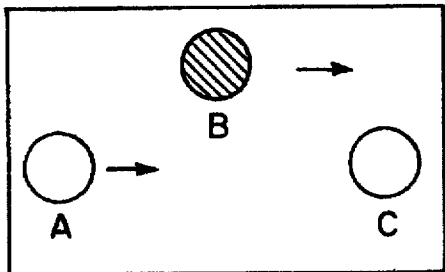
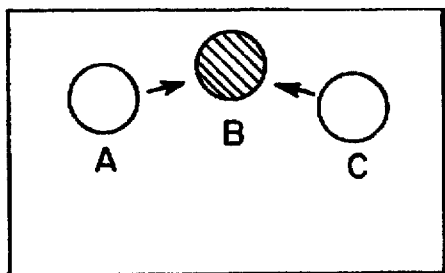
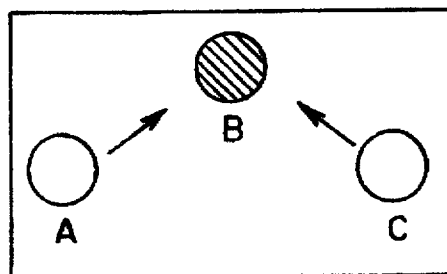


FIG. 2I



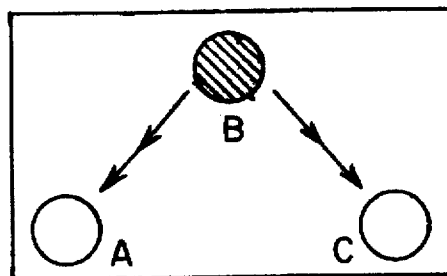
**FIG. 3A**

**FIG. 3B**



**FIG. 3C**

**FIG. 3D**



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