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Venetianer et al.

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(54) **VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES**

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(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation-in-part of application No. 11/057,154, filed on Feb. 15, 2005, which is a continuation-in-part of application No. 09/987,707, filed on Nov. 15, 2001, now abandoned, which is a continuation-in-part of application No. 09/694,712, filed on Oct. 24, 2000, now Pat. No. 6,954,498.

(51) **Int. Cl.**
H04N 7/18 (2006.01)

(52) **U.S. Cl.** **348/143**

(58) **Field of Classification Search** 348/143, 348/148, 150, 149, 166, 169, 170; 382/103, 382/115; 375/240.02, 240.08; *H04N 7/18*
See application file for complete search history.

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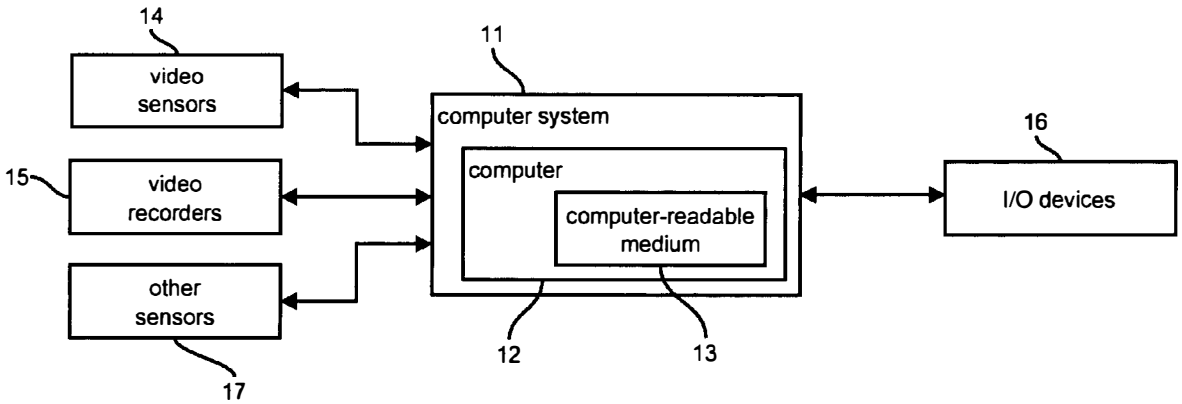
(57) **ABSTRACT**

A video surveillance system extracts video primitives and extracts event occurrences from the video primitives using event discriminators. The system can undertake a response, such as an alarm, based on extracted event occurrences.

22 Claims, 19 Drawing Sheets



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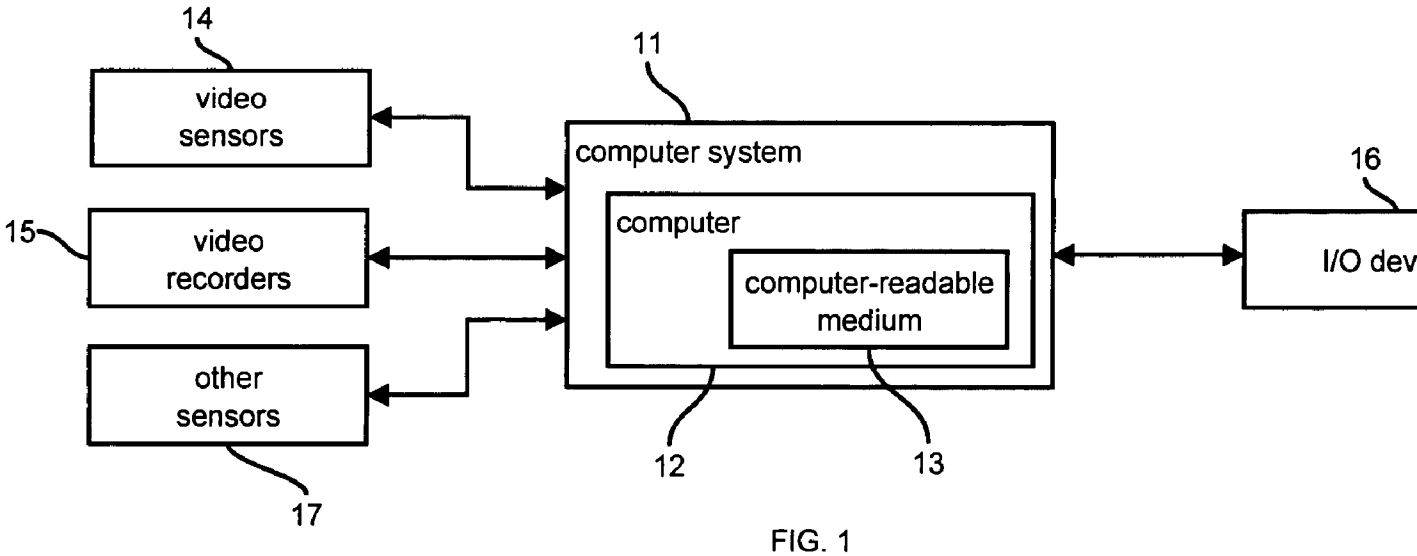

FIG. 1

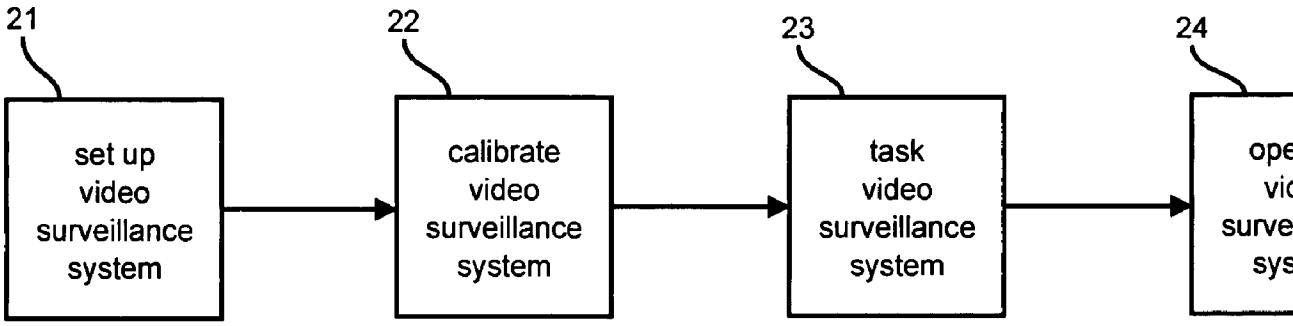

FIG. 2

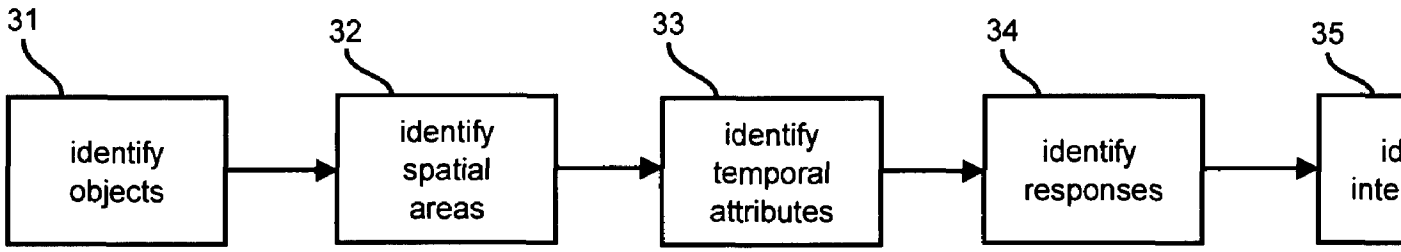

FIG. 3

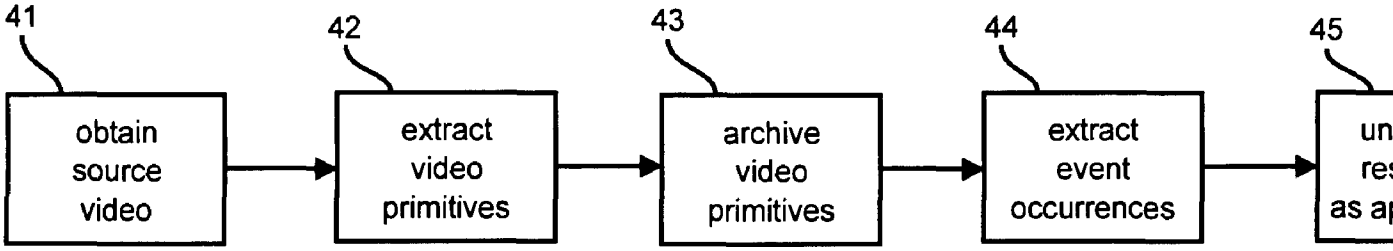

FIG. 4

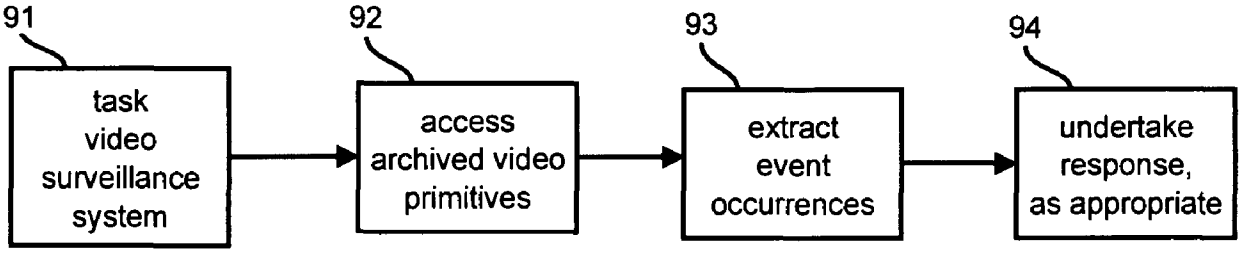

FIG. 9

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