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(54) **MULTI-STAGE MEMORY BUFFER AND  
AUTOMATIC TRANSFERS IN VEHICLE  
EVENT RECORDING SYSTEMS**

(52) **U.S. Cl. .... 345/564**

(75) **Inventor: James Plante, Del Mar, CA (US)**

(57) **ABSTRACT**

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Vehicle event recorder systems are arranged with three stage memories and special mechanism to manage those memories including transfer of data there between. Namely, a managed loop memory receives data from a video camera in real-time and continuously overwrites expired data implicitly determined no longer useful. Data in a managed loop memory is only passed to a more stable memory, a high-capacity buffer memory, in response to an event having occurred. An event trigger produces a signal, which causes data transfer between the managed loop memory and an on-board, high-capacity buffer memory. The high-capacity buffer memory is suitable for storing video series associated with a plurality of events. Finally, a permanent data store is arranged to receive data from the high-capacity buffer memory whenever the system returns and falls within a predetermined proximity of a download station.

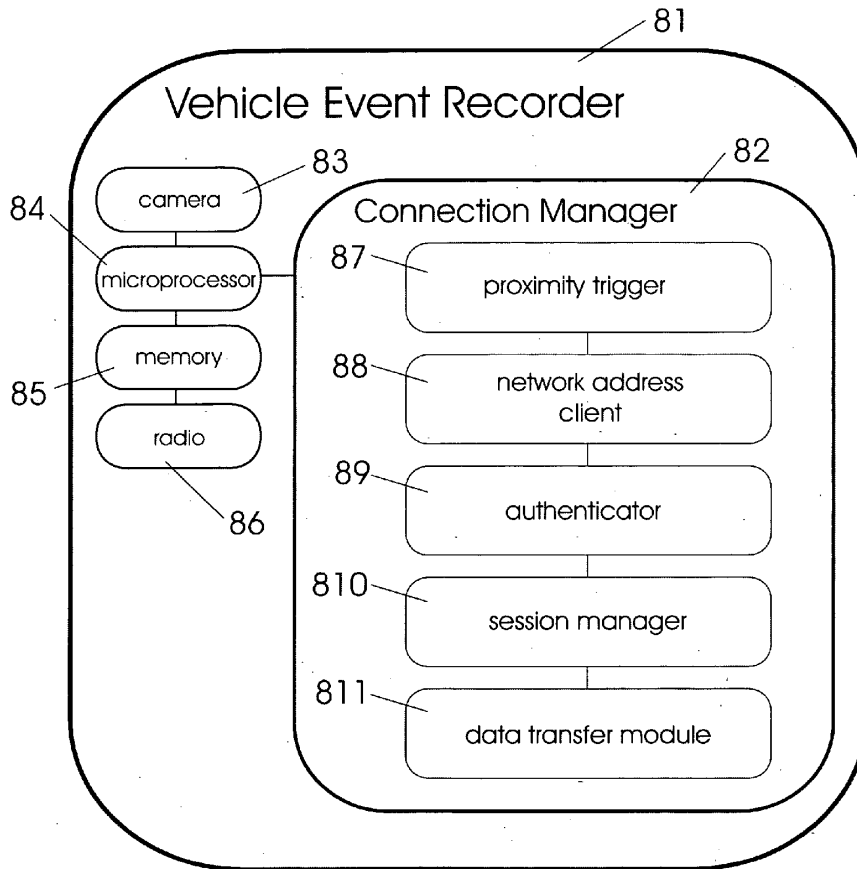
(73) **Assignee: SmartDrive Systems Inc**

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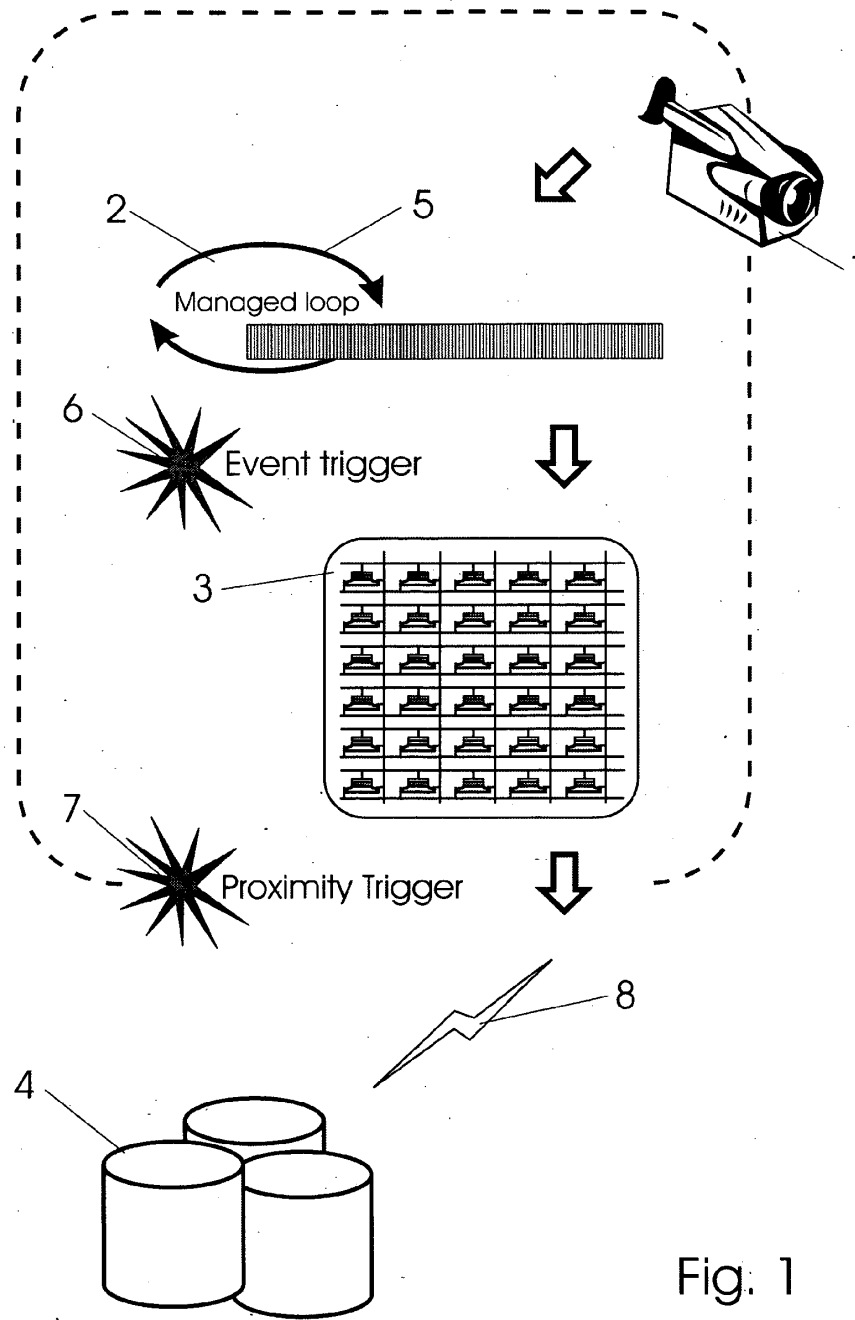


Fig. 1

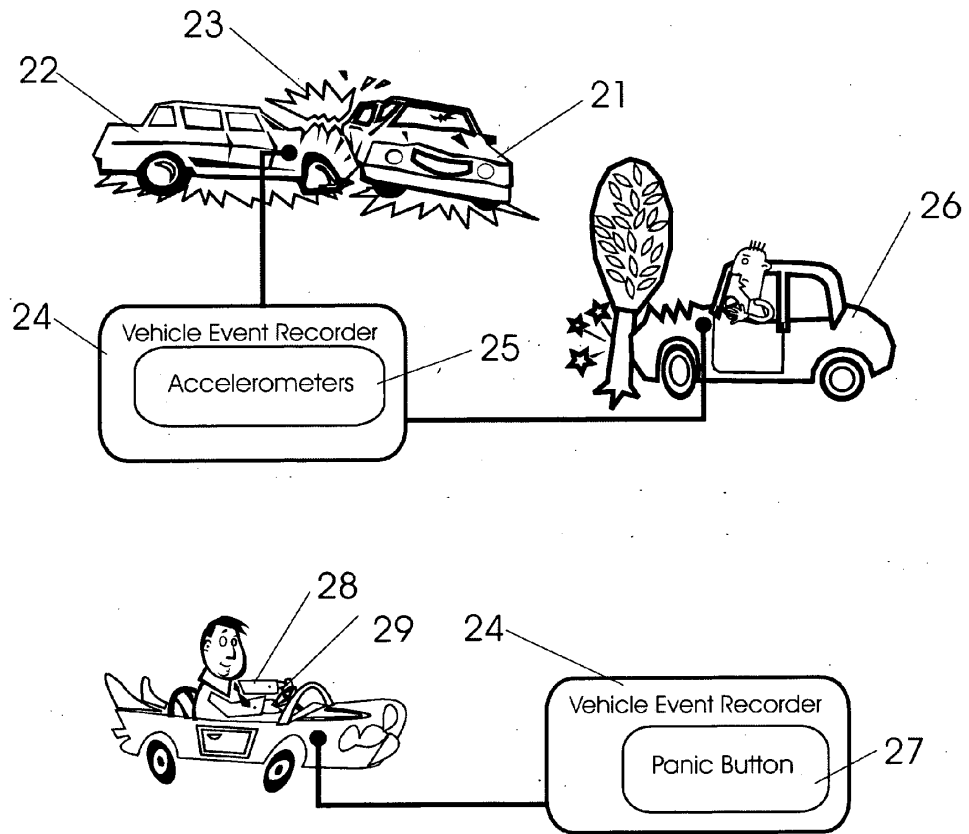


Fig. 2

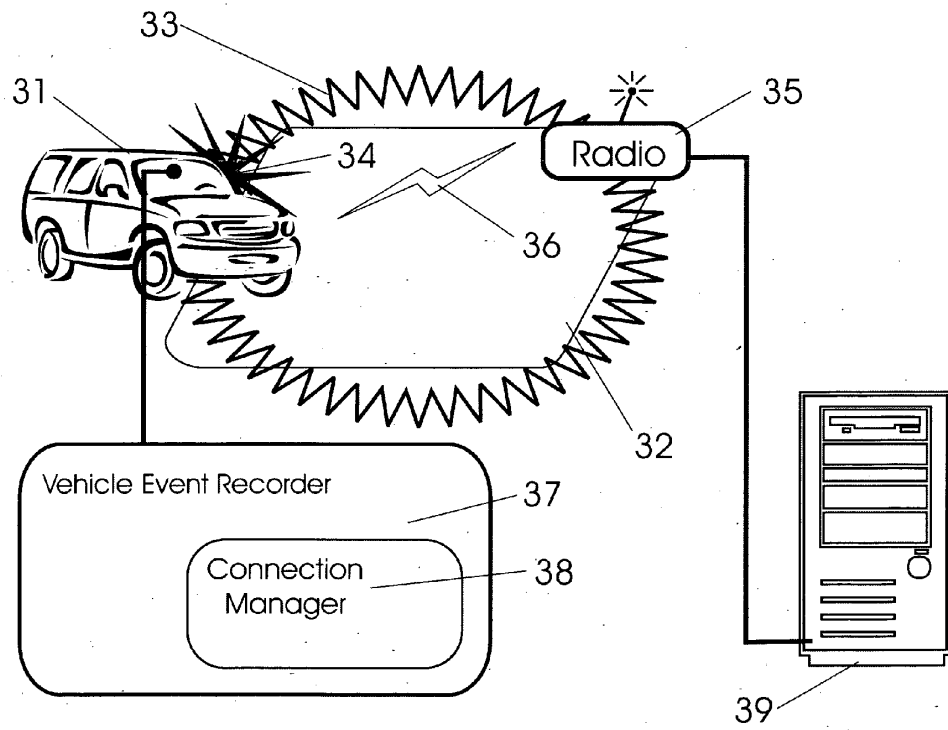


Fig. 3

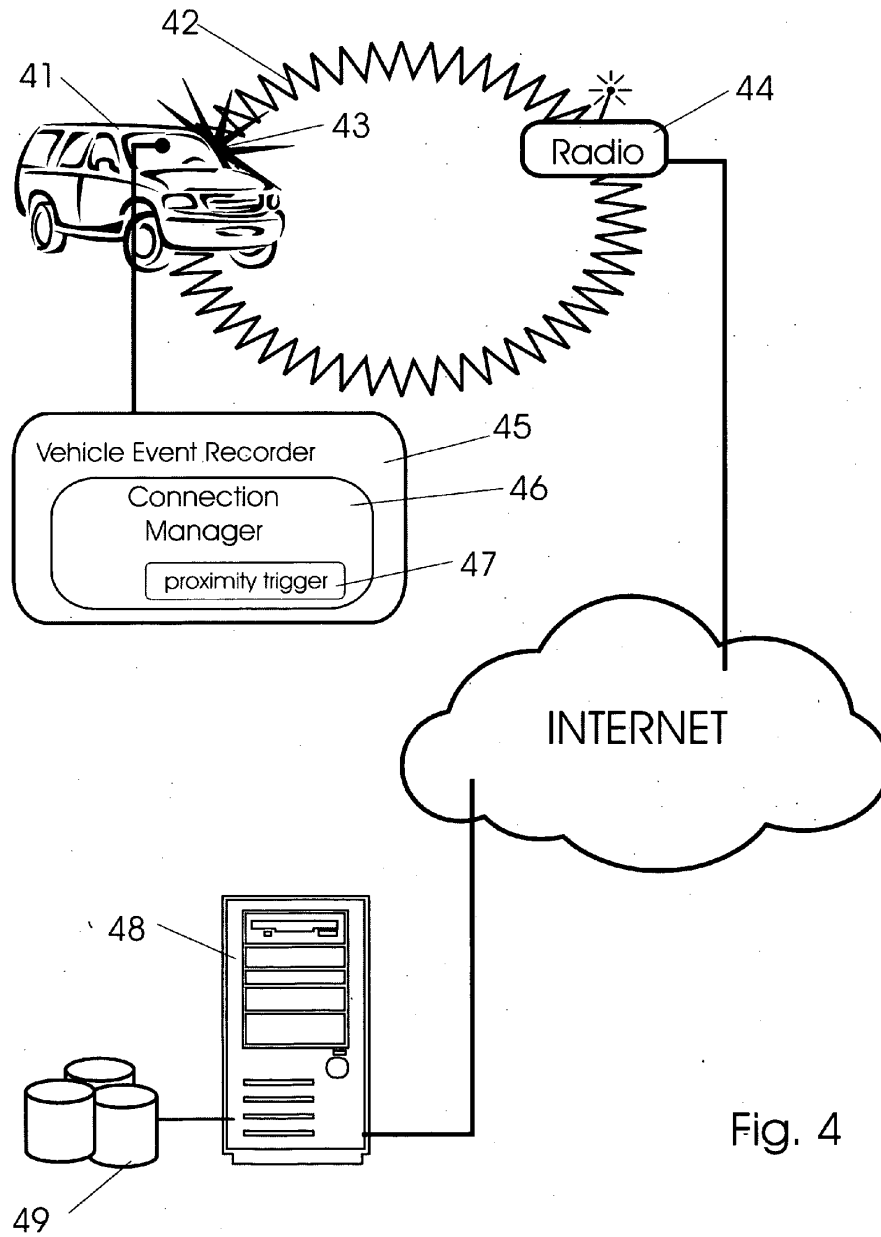


Fig. 4

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