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(54) **EMERGENCY VEHICLE TRAFFIC SIGNAL PRE-EMPTION AND COLLISION AVOIDANCE SYSTEM**

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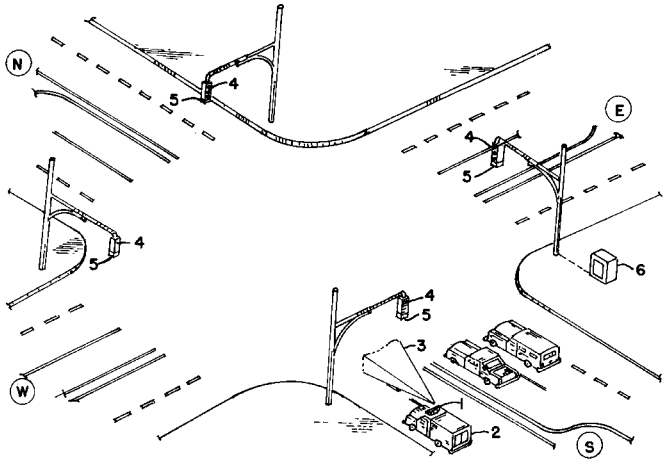
(57) **ABSTRACT**

The present invention discloses a system that allows operators of emergency vehicles to obtain graphic data regarding other emergency vehicles that may pose threats of collision. Automatic signaling takes place between emergency vehicles within range of each other to transmit directional data regarding the direction of travel of each emergency vehicle. This data is correlated to derive directional vectors relative to each other. These vectors are displayed so that the operator can quickly determine the direction of other vehicles with respect to his own. The system includes equipment for preempting traffic signals by selected emergency vehicles, and for informing other emergency vehicles that a traffic signal has been preempted.

20 Claims, 7 Drawing Sheets