

Emergency Vehicle Alert System Uses Siren Detection Technology to Improve Driver Awareness

PITTSBURGH, PA, UNITED STATES, August 26, 2026 /EINPresswire.com/ -- Vince L. of Glendora, CA is the creator of the Emergency Vehicle Alert System (EVAS), a software-based driver alert technology designed to improve awareness of approaching emergency vehicles. The system monitors surrounding audio conditions for the acoustic signatures and decibel levels associated with emergency vehicle sirens and provides the driver with audible and visual notifications when an approaching emergency vehicle is detected.

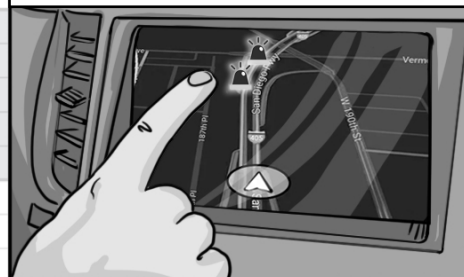
EVAS is designed for integration with a vehicle's onboard computer system and can also be adapted for use through a driver's smartphone. Once an emergency siren is detected within a defined operating range, the system communicates the alert through the vehicle's speaker system and dashboard display. The combination of auditory and visual notifications is intended to provide drivers with additional time to recognize the approaching emergency vehicle, assess surrounding traffic, and move into an appropriate position to allow it to pass.



AN AUDIO ALERT GOING THROUGH THE BLUETOOTH SYSTEM CUTTING INTO THE VEHICLE'S SPEAKER SYSTEM, ANNOUNCING "EMERGENCY VEHICLE ALERT" WOULD BE HEARD

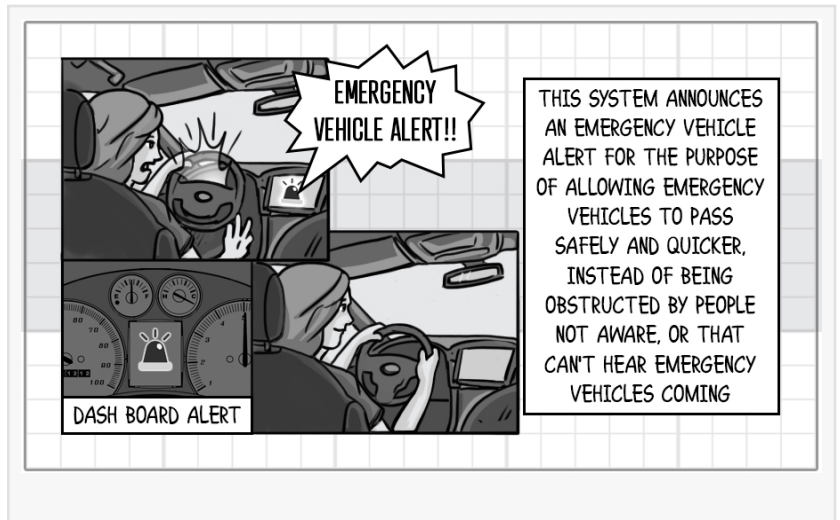
DEPENDING ON HOW MANY VEHICLES THERE ARE APPROACHING A FLASHING RED ICON WOULD BE USED.
🚓 REPRESENTING ONE VEHICLE
🚓🚓 REPRESENTING TWO VEHICLES

THE EVAS CAN BE USED ON CELL PHONES WHEN USING BLUETOOTH SERVICES, LIVE GPS NAVIGATION SYSTEMS FOR OLDER VEHICLES, ON ON-BOARD COMPUTER SCREENS FOR NEWER VEHICLES, AND ON THE CARS DASHBOARD



THIS WOULD DISPLAY EMERGENCY VEHICLES, USING A RED FLASHING ICON TO IDENTIFY THE EMERGENCY VEHICLES IN THE AREA OF 1/2 MILE RADIUS

Modern vehicle construction can create highly insulated passenger compartments that reduce the amount of outside road noise entering the cabin. Although this can improve occupant comfort, it may also make it more difficult for a driver to recognize an emergency vehicle approaching from behind or from another direction. In heavy traffic, poor weather, or other high-noise environments, a siren may not be recognized until the emergency vehicle is relatively close.



Failure to recognize an approaching emergency vehicle can delay emergency response and create additional hazards on the roadway. A driver who does not hear a siren may remain in the emergency vehicle's path, while an emergency driver may be required to maneuver around traffic unexpectedly. These circumstances can increase the potential for collisions and prevent emergency personnel from reaching an accident, medical emergency, fire, or other incident as quickly as possible.

EVAS combats these issues by adding an electronic detection layer between the external acoustic environment and the vehicle operator. The software monitors sound received by the vehicle's sensors or other compatible audio hardware and evaluates detected decibel levels and siren characteristics. When the system determines that an emergency siren is present within its designated detection range, it generates an alert through one or more available interfaces.

In an integrated vehicle version, the alert can be delivered through the vehicle's existing speaker system while a corresponding visual warning appears on the dashboard display. This dual-alert approach is intended to reduce the likelihood that a driver will overlook the notification, even when the driver is listening to music, operating the vehicle in a noisy environment, or otherwise unable to immediately distinguish an external siren.

For older vehicles without an onboard computer display, EVAS can utilize a smartphone-based implementation. The smartphone application can communicate through Bluetooth and incorporate live GPS navigation functionality to provide the driver with alerts without requiring modifications to the vehicle's existing computer system. The system may also use rotating visual indicators, with one, two, or three lights representing the number of emergency vehicles detected.

Key features and benefits include:

- Emergency siren detection: Monitors surrounding sound levels for acoustic characteristics

associated with emergency vehicle sirens.

- Vehicle computer integration: Can operate through a vehicle's primary computer and dashboard display.
- Audible driver notifications: Uses the vehicle's speaker system to provide an alert when an approaching emergency vehicle is detected.
- Adaptable implementation: Can support newer vehicles with integrated computer systems as well as older vehicles without advanced dashboard displays.
- Roadway safety support: Helps reduce situations in which an unaware driver obstructs the path of an emergency vehicle.

The overall objective of Emergency Vehicle Alert System is to improve communication between emergency vehicles and surrounding motorists through automated detection and notification. The system provides a technology-based approach to improving driver awareness and supporting the safe and timely movement of emergency vehicles through traffic.

Vince filed his Utility Patent with the United States Patent and Trademark Office (USPTO) and is working closely with [InventionHome](#), a leading invention licensing firm, to sell or license the patent rights to his Emergency Vehicle Alert System. Ideal licensing candidates would be U.S. based product manufacturers or distributors looking to further develop and distribute this product innovation.

Companies interested in the Emergency Vehicle Alert System can contact InventionHome at member@inventionhome.com. Inventors currently looking for assistance in patenting, marketing, or licensing their invention can request information from InventionHome at info@inventionhome.com or by calling 1-866-844-6512.

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InventionHome
InventionHome
+1 866-844-6512

info@inventionhome.com

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