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# GSM TEMPERATURE ALERT SYSTEM

## TO DETECT TEMPERATURE INSIDE THE CAR

### Summary of Invention

Lately, many newspaper articles have released issues of car driver negligence cases that have resulted in several deaths. This stems from drivers carelessness who often leave their children in the car for hours without letting the air conditioner is on or the car windows slightly open. Therefore, sealing air inside the car will causing the temperature rises and eventually the victim is suffocating because there is no oxygen to breathe. To overcome this issue, a temperature monitoring system in the car is importance to monitor. That device will tell the user about the over limit temperature that can be dangerous to child. Global System Mobile or GSM, communication module is applied for this system to get the signal from the temperature sensor. The temperature sensor of the car will give the signal through the GSM then transferring the information to the mobile phone of a user.

### Problem Statement

- Individual carelessness – Driver negligence who forgot to switch on the air conditioner while leaving child in the car. Figure 1 shown Statistic of U.S. heatstroke deaths (children in vehicles).
- Safety aspect – To prevent any accidents such as faintness, extreme tiredness, and headache happen especially involving higher body temperature of children.
- Heat effect – If the temperature is higher than usual which is 35oC and above in the car, it will causes the hazard to human especially to children.

### Objective

- To monitor the car condition in term of maximum temperature to prevent heat effect to human.
- Using GSM signal to send the alert to the mobile phone.
- To use the module of temperature monitoring system and to detect temperature by sensor.

### Scope

- Study about human temperature monitoring.
- Study about safety in the car based on temperature monitoring and the effect to human.
- Develop the system using GSM to transmit and the alert of higher temperature.
- Design and develop system to integrate between GSM and auto dialler temperature sensor.

U.S. Heatstroke Deaths  
(Children in Vehicles)

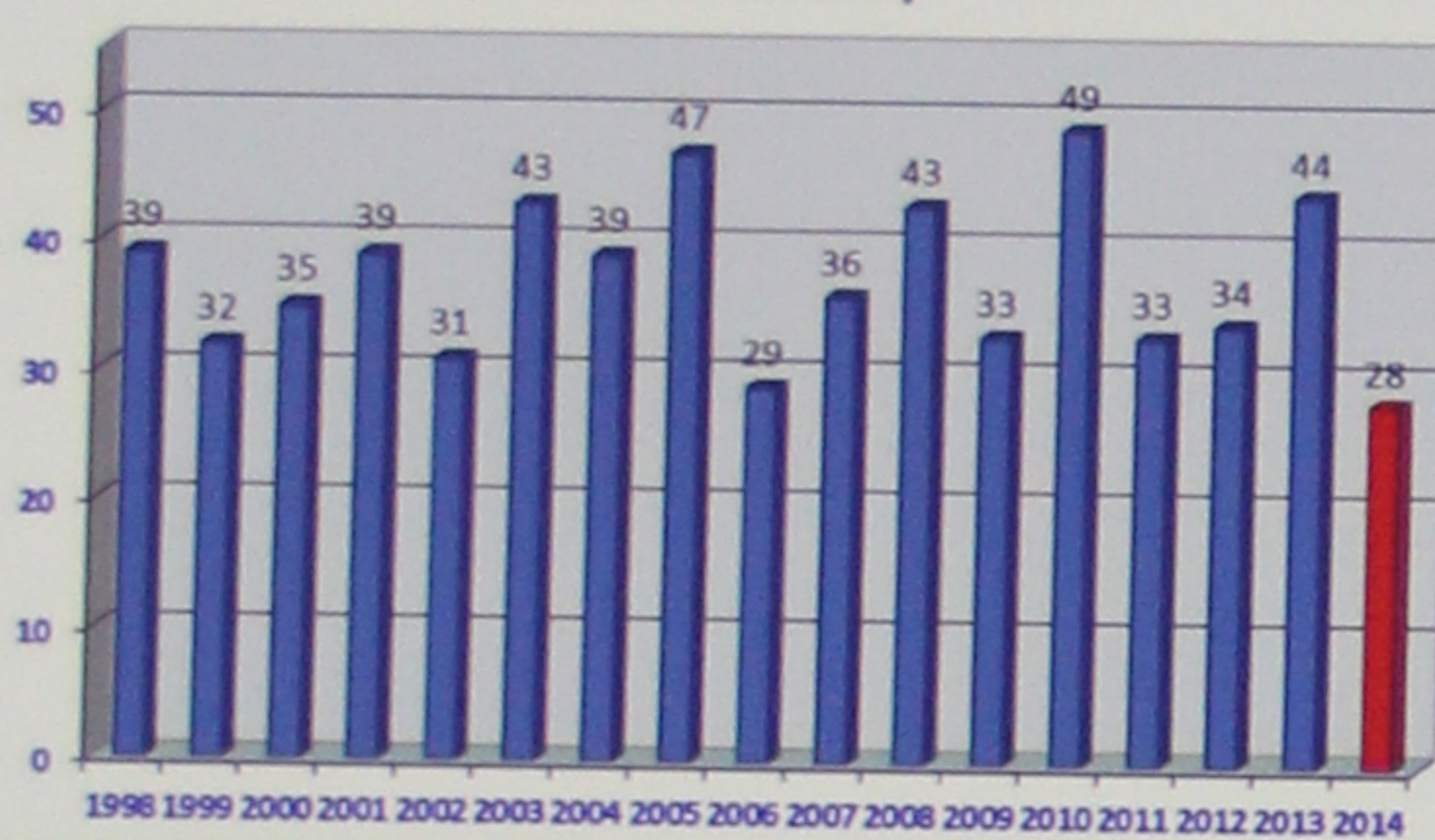


Figure 1: Statistic of U.S. heatstroke deaths

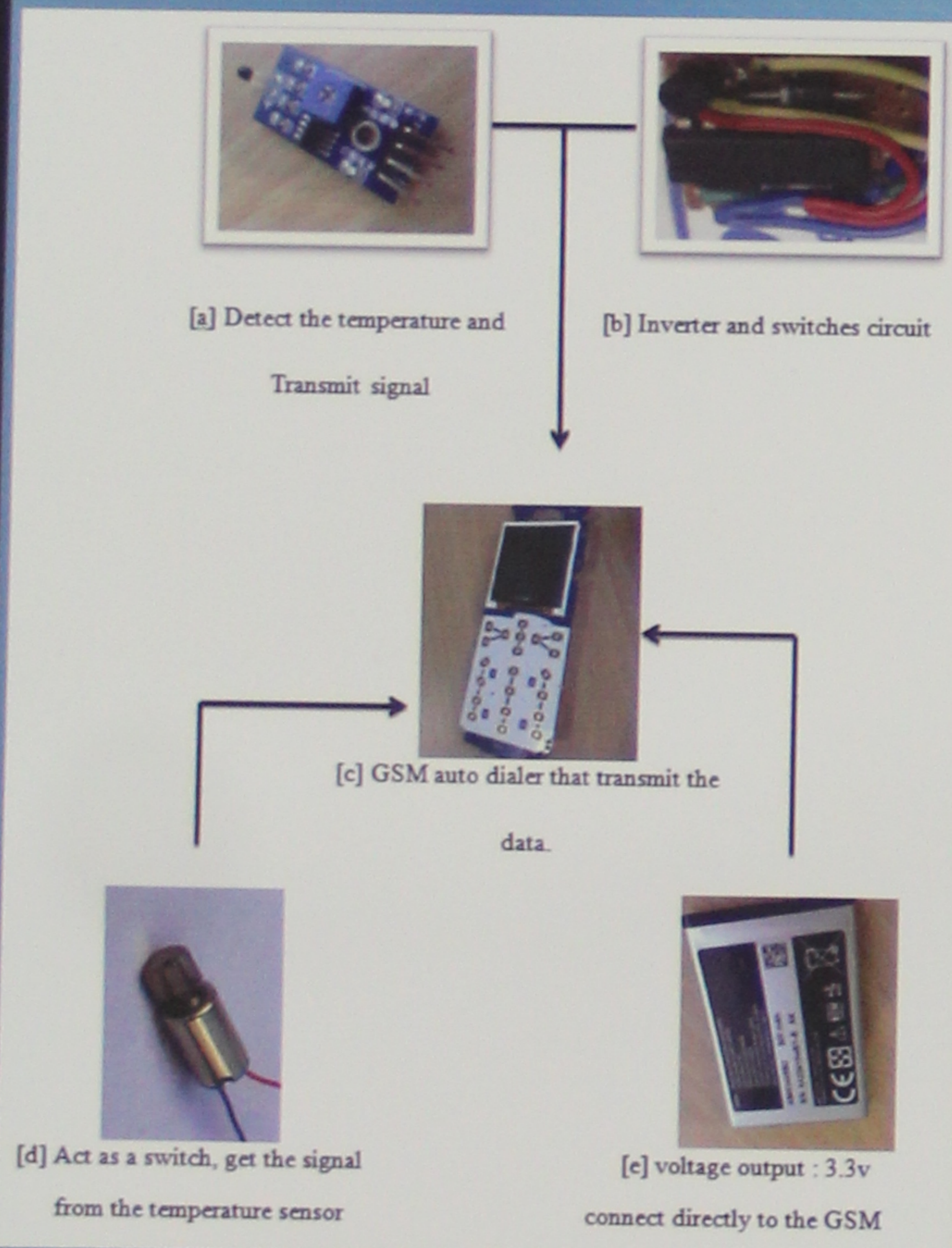


Figure 2 : Design concept of GSM temperature alert system.



Testing the project