

(54) Title of the invention : OVER SPEED AND BLIND SPOT ALERT SYSTEM

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(57) Abstract :
Over speed and Blind Spot Alert System designed to enhance vehicle safety by providing real-time alerts to the driver about two critical driving hazards: over speeding and blind spot collisions. The system utilizes a combination of speed monitoring, GPS technology, radar sensors, and cameras to detect and notify the driver of potential risks. The over speed alert system continuously monitors the vehicle's speed and compares it with the relevant speed limits, which are retrieved from digital maps, road signs, or GPS data. If the vehicle exceeds the preset speed limit, the system triggers auditory, visual, and haptic feedback alerts to warn the driver. The blind spot detection system uses radar sensors and cameras to monitor the areas around the vehicle where the driver's visibility is limited. When a vehicle enters the blind spot, the system activates visual warnings on the side mirrors, audible alerts, or haptic feedback in the steering wheel or seat. More advanced versions of the system can also provide lane-change assistance, steering the vehicle back into the current lane or applying brakes if the driver attempts to change lanes into an occupied blind spot. This invention integrates both the overspeed and blind spot alert systems into a cohesive framework, offering enhanced driver safety, reducing the risk of accidents, and promoting better driving behaviour. By providing real-time, context-sensitive warnings, the system ensures that drivers are aware of potential hazards and can take corrective actions promptly, contributing to the broader development of Advanced Driver Assistance Systems (ADAS).