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(54) Title of the invention : Anti Sleep Alarm for Drivers using IR sensor

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(57) Abstract :  
 Drowsy driving is a significant cause of road accidents, especially during long journeys or night driving. To address this issue, an Anti-Sleep Alarm system for drivers using Infrared (IR) sensors is proposed. This system continuously monitors the driver's eye behavior, specifically focusing on blink rates and eye closure duration, through an IR sensor that detects eye movement without physical contact. When the sensor identifies signs of fatigue, such as prolonged eyelid closure or slow blinking, it activates an audible alarm to alert the driver, thereby preventing potential accidents caused by drowsiness. The system is designed to work effectively in various lighting conditions, including low-light environments, making it suitable for night driving. This solution provides a non-intrusive, affordable, and practical approach to enhancing road safety by reducing the likelihood of accidents caused by driver fatigue.

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