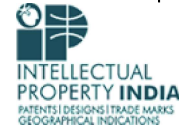


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## Patent Search

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### Abstract:

The invention relates to an AI-enabled vehicular accident-detection and insurance-automation system comprising a 360° multi-camera assembly, a telematics-based sense module, and an onboard processing unit executing machine-learning algorithms to detect and analyse collision events. Upon detecting an impact, the system automatically captures pre- and post-accident video, extracts metadata including time, location, severity, and impact direction, and encrypts and transmits the evidence to a secure remote blockchain-based storage system. An automated insurance-initiation module communicates authenticated accident data to insurers, while an emergency-response module designated contacts and service providers with real-time crash information. The system provides autonomous, tamper-proof accident documentation, rapid claims process and improved safety intervention without requiring user input.

**Complete Specification****Description: FIELD OF THE INVENTION**

[001] The present invention relates to the field of automotive safety systems, insurance technology (InsurTech), and intelligent emergency response platforms. More particularly, the invention pertains to an AI-enabled 360° vehicular dashcam system integrated with real-time accident detection, automated insurance claim generation, blockchain-secured evidence storage, and coordinated roadside assistance dispatch. The invention further relates to smart vehicular telematics, sensor-driven crash analytics, secure digital evidence management, and automated fault assessment frameworks deployed in motor vehicles for enhancing driver safety, reducing insurance fraud, and enabling instant emergency support.

**BACKGROUND OF THE INVENTION**

[002] Motor vehicle accidents remain a major cause of fatalities, injuries, property damage, and insurance disputes worldwide. Despite advancements in vehicular safety post-accident processes—including evidence gathering, fault determination, emergency response, and insurance claim submission—continue to be slow, error-prone, and heavily dependent on human reporting. In many cases, critical accident data is either lost, inaccurately recorded, or tampered with, leading to prolonged claim settlement, increased fraud, and significant financial losses for both vehicle owners and insurers. The absence of objective, tamper-proof digital evidence further complicates liability assessment and lengthens dispute resolution cycles.

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