

(54) Title of the invention : Cloud based train accident prevention safety system

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(57) Abstract :

The present innovation is related to designing and developing a cloud based train safety system to prevent the train accidents. The disclosed invention uses satellite imaging and location of train through global positioning system (GPS) and sensors to detect fault tracks and/or fault rails and communicate to the central control unit through cloud. The stored data regarding the normal condition of the tracks and rails is analyzed and compare with the received data to assess the condition of the rail tracks. In the event of fault detection, the central control unit signals the engine control unit to stop the train and monitor the deceleration of the train. The central control unit also sends the information to the local administration about the event and alerts the officials.

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