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(54) Title of the invention : AN AIRBAG SYSTEM FOR A VEHICLE

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(57) Abstract :
An airbag system (100) for a vehicle comprises an airbag (102), and a plurality of sensors (104) are communicably coupled to the airbag (102) to detect a collision of the vehicle while riding. Further, the airbag system (100) comprises a processing unit (106) coupled to the plurality of sensors (104). The processing unit (106) is configured to receive one or more signals from the sensors (104) in response to the detection of the collision of the vehicle. Further, process the received signals. Furthermore, estimate an impact value corresponding to the processed signals. Thereafter, generate an alert signal, when the estimated value exceeds a pre-defined threshold value. In addition, the airbag system (100) comprises a control unit (108) configured to receive and transmit the generated alert signal to a deployment unit (110). Further, the deployment unit (110) deploys the airbag, based on the transmitted signal from the control unit (108).

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