

Title (en)

TRAFFIC ACCIDENT DETECTING SENSOR FOR A PASSENGER PROTECTION SYSTEM IN A VEHICLE

Title (de)

EINEN VERKEHRSUNFALL ERKENNENDER SENSOR FÜR EIN INSASSENSCHUTZSYSTEM EINES FAHRZEUGES

Title (fr)

DETECTEUR D'ACCIDENT DE LA CIRCULATION POUR UN DISPOSITIF DE PROTECTION DES OCCUPANTS D'UN VEHICULE

Publication

EP 0642696 B1 19960124 (DE)

Application

EP 93909793 A 19930525

Priority

- DE 9300458 W 19930525
- DE 9207070 U 19920525

Abstract (en)

[origin: WO9324948A1] A traffic accident detecting sensor for a passenger protection system in a vehicle with a low-retentivity seismic mass (2) which can move along a guide (5) between two extreme positions and is normally held in a first extreme position by a pressure. The pressure is overcome in the event of deceleration in such a way that the seismic mass moves into the second extreme position, with a magnet (4) distinct from the seismic mass, the magnetic field of which is differentially distorted by the seismic mass depending upon the latter's position, with at least one contact (1) controllable by the field of the magnet and with such an arrangement of the contact and the seismic mass that, in its first extreme position, the latter largely represents a magnetic shunt diverting the magnetic field away from the contact and towards the seismic mass so that the contact is then in its first contact condition and the seismic mass does not represent a magnetic shunt at points beyond this extreme position so that the contact is then controlled in its other contact condition under the effect of the magnetic field. The magnet forms the guide or is rigidly connected thereto, the magnet being magnetised perpendicularly to the direction in which the seismic mass can move. The contact is arranged near a frontal surface of the guide in such a way that the magnetic flux through the contact depends upon the position of the seismic mass.

IPC 1-7

H01H 35/14

IPC 8 full level

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