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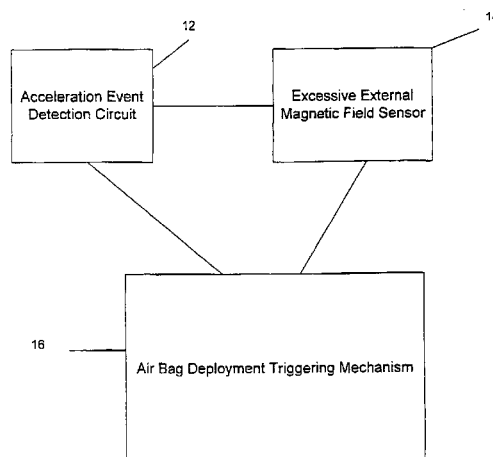
(43) International Publication Date
20 September 2001 (20.09.2001)

PCT

(10) International Publication Number
WO 01/68402 A1

- (51) International Patent Classification⁷: **B60Q 1/00**, B60R 21/32, B60K 28/00, 28/10 (74) Agents: **DEPKE, Robert, J.** et al.; Mayer Brown & Platt, 190 South LaSalle Street, Chicago, IL 60603 (US).
- (21) International Application Number: PCT/US01/07845 (81) Designated States (*national*): AU, CA, CN, DE, GB, IL, JP, MX, SG, ZA.
- (22) International Filing Date: 12 March 2001 (12.03.2001) (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/523,875 13 March 2000 (13.03.2000) US
- (71) Applicant: **AM-SAFE INCORPORATED** [US/US]; 240 North 48th Avenue, Phoenix, AZ 85043 (US).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: AIR BAG HAVING EXCESSIVE EXTERNAL MAGNETIC FIELD PROTECTION CIRCUITRY



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(57) **Abstract:** An air bag deployment system includes circuitry for preventing the accidental deployment of the air bag (16) during exposure of the system to an excessive external magnetic field. The system includes an accelerometer (12) comprised of first and second Hall effect magnetic devices which are associated with the impact detection circuitry of the deployment system. A sensed magnetic field is used in determining the presence of an acceleration which is of sufficient magnitude to require deployment of the air bag in order to prevent injury to the occupants of a vehicle. The advanced system of the present invention further includes circuitry which senses large external magnetic fields (14). This sensing circuitry may be comprised of one or more additional Hall effect magnetic sensors which are located preferably outside the magnetic shield that contains the primary circuitry for triggering deployment of the air bag.