

Title (en)

SIGNAL PROCESSING SYSTEM AND METHOD

Title (de)

SIGNALVERARBEITUNGSSYSTEM UND -VERFAHREN

Title (fr)

SYSTÈME ET PROCÉDÉ DE TRAITEMENT DE SIGNAUX

Publication

**EP 1968816 A2 20080917 (EN)**

Application

**EP 06850290 A 20061213**

Priority

- US 2006062055 W 20061213
- US 75012205 P 20051213
- US 46098206 A 20060729
- US 53049206 A 20060911

Abstract (en)

[origin: WO2007114870A2] A time-varying signal is applied to at least one coil (14) in magnetic communication with at least a portion of a vehicle (12) susceptible to deformation responsive to a crash. A sense resistor (RS) in series with the at least one coil (14) provides for detecting a current therethrough responsive to a voltage thereacross. The current (iL) is responsive to a magnetic condition affecting the magnetic field generated by the at least one coil, responsive to the reluctance of a magnetic circuit with which the at least one coil (14) is in magnetic communication, and responsive to associated eddy currents in proximal conductive elements, responsive to the magnetic field generated by the at least one coil (14).

IPC 8 full level

**B60Q 1/00** (2006.01); **B60R 21/16** (2006.01); **B60R 22/00** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2007114870A2

Designated contracting state (EPC)

DE

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**WO 2007114870 A2 20071011**; **WO 2007114870 A3 20080417**; EP 1968816 A2 20080917; JP 2009519181 A 20090514

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**US 2006062055 W 20061213**; EP 06850290 A 20061213; JP 2008545966 A 20061213