

Title (en)
OCCUPANT DETECTION SYSTEM

Title (de)
SYSTEM ZUR INSASSENERKENNUNG

Title (fr)
SYSTEME DE DETECTION D'OCCUPANTS

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Application
EP 03755418 A 20030521

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Abstract (en)
[origin: WO03100462A2] An occupant detection system (10) comprises a weight sensor (12) and an electric field sensor (14), each operatively coupled to a seat (22). The electric field sensor (14) generates an electric field from at least one electrode in the seat bottom of the seat, provides for generating a response to an influence of the occupant (18) thereupon, and is adapted to provide for discriminating from the response a seated infant or child seating condition from another seating condition. If a measure of weight from the weight sensor (12) is less than a threshold, or if a seated child seating condition is detected by the electric field sensor (14), then a signal processor provides for disabling an associated restraint actuator (44). The electric field sensor (14) may comprise a plurality of electrodes (26, 26.1, 26.2) over separate first and second regions of differing proximity to a seated infant or child, or at least one electrode (26) in cooperation with a shield or void over at least one of the regions.

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