

Title (en)
OCCUPANT DETECTION SYSTEM

Title (de)
SYSTEM ZUR INSASSENERKENNUNG

Title (fr)
SYSTEME DE DETECTION D'OCCUPANTS

Publication
EP 1573695 A4 20080806 (EN)

Application
EP 03755418 A 20030521

Priority
• US 0316045 W 20030521
• US 15337802 A 20020521

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.

IPC 1-7
G08B 13/26

IPC 8 full level
B60N 2/90 (2018.01); **B60N 2/00** (2006.01); **B60N 2/28** (2006.01); **B60R 21/01** (2006.01); **B60R 21/16** (2006.01); **G01G 19/414** (2006.01); **B60R 21/015** (2006.01)

CPC (source: EP US)
B60N 2/0024 (2023.08 - EP US); **B60N 2/0025** (2023.08 - EP US); **B60N 2/0031** (2023.08 - EP US); **B60N 2/0033** (2023.08 - EP US); **B60N 2/0034** (2023.08 - EP US); **B60N 2/0035** (2023.08 - EP US); **B60N 2/268** (2023.08 - EP US); **B60N 2/2884** (2013.01 - EP); **B60R 21/01516** (2014.10 - EP); **B60R 21/01532** (2014.10 - EP); **B60R 21/01556** (2014.10 - EP); **G01G 19/4142** (2013.01 - EP); **B60N 2210/12** (2023.08 - EP US); **B60N 2210/44** (2023.08 - EP US); **B60N 2230/30** (2023.08 - EP US)

Citation (search report)
• [X] EP 1065097 A1 20010103 - FURUKAWA ELECTRIC CO LTD [JP]
• [X] US 6366200 B1 20020402 - AOKI HIROSHI [JP]
• [A] US 2001033074 A1 20011025 - AOKI HIROSHI [JP], et al

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
WO 03100462 A2 20031204; **WO 03100462 A3 20040408**; AU 2003243289 A1 20031212; AU 2003243289 A8 20031212; EP 1573695 A2 20050914; EP 1573695 A4 20080806; JP 2005526666 A 20050908

DOCDB simple family (application)
US 0316045 W 20030521; AU 2003243289 A 20030521; EP 03755418 A 20030521; JP 2004507867 A 20030521