

Title (en)
Safety arrangement for vehicle doors

Title (de)
Sicherheitsanordnung für Fahrzeugtüren

Title (fr)
Agencement de sécurité pour portes de véhicules

Publication
EP 1054128 B1 20040407 (EN)

Application
EP 00850089 A 20000518

Priority
SE 9901899 A 19990521

Abstract (en)
[origin: EP1054128A2] A safety arrangement for vehicle doors (2) which are operated by a pressure medium, which arrangement limits the risk of a person's becoming trapped in a bus door with consequent risk of personal injury. The invention brings about a temporary reduction in the air pressure in the door machinery (14). The pressure is reduced during the door closing process and reverts to full pressure when the vehicle exceeds a certain limit speed. This function reduces the risk of injury and makes it easier for someone who becomes trapped, e.g. between door and bodywork while alighting, to free him/herself. It is also possible for another passenger to push the door open and free the trapped person. The desired function is achieved by leading the pressure medium from the pressure tanks (3) to the door machinery (14) via a pressure limiting valve (10) at the time of door opening and by thereafter allowing the air to flow through a different clear passage (11,13), resulting in full pressure, when the doors have closed and the vehicle has reached a certain speed. <IMAGE>

IPC 1-7
E05F 15/00; **E05F 15/02**

IPC 8 full level
E05F 15/02 (2006.01); **F15B 11/028** (2006.01); **F15B 20/00** (2006.01); **E05F 15/00** (2006.01)

CPC (source: EP)
E05F 15/50 (2015.01); **F15B 11/028** (2013.01); **F15B 20/00** (2013.01); **E05F 15/49** (2015.01); **E05Y 2900/506** (2013.01); **F15B 2211/212** (2013.01); **F15B 2211/30525** (2013.01); **F15B 2211/327** (2013.01); **F15B 2211/40515** (2013.01); **F15B 2211/41509** (2013.01); **F15B 2211/426** (2013.01); **F15B 2211/50554** (2013.01); **F15B 2211/55** (2013.01); **F15B 2211/6346** (2013.01); **F15B 2211/6653** (2013.01); **F15B 2211/7054** (2013.01); **F15B 2211/8643** (2013.01)

Cited by
CN1325740C; EP2858618A4; NL1025679C2; EP1715127A1; CN104290686A; JP2016014473A; US7603813B2; US7654039B2; US7489095B2; WO03097977A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1054128 A2 20001122; **EP 1054128 A3 20011219**; **EP 1054128 B1 20040407**; DE 60009599 D1 20040513; DE 60009599 T2 20050421; SE 516950 C2 20020326; SE 9901899 D0 19990521; SE 9901899 L 20001122

DOCDB simple family (application)
EP 00850089 A 20000518; DE 60009599 T 20000518; SE 9901899 A 19990521