

Title (en)

SAFETY DEVICE FOR DOORS OF PUBLIC TRANSPORT VEHICLES

Title (de)

SICHERHEITSVORRICHTUNG FÜR TÜREN VON FAHRZEUGEN DES ÖFFENTLICHEN VERKEHRS

Title (fr)

DISPOSITIF DE SÉCURITÉ POUR PORTES DE VÉHICULES DE TRANSPORT PUBLIC

Publication

EP 3862519 B1 20220907 (EN)

Application

EP 21155130 A 20210204

Priority

IT 202000002473 A 20200207

Abstract (en)

[origin: EP3862519A1] A door device for public transport vehicles, such as buses, trams or the like, comprises at least one door wing (4) having an upper end connected to a door wing-supporting arm (5) protruding from a bushing (6) mounted on an upper horizontal guiding rod (7). A vertical shaft (8) is rotatably supported on one side of the doorway, and carries a lower arm (9) at its lower end for guiding the door wing, which is operationally connected to a lower end of the door wing (4) by means of an engagement member in the form of a wheel (10) guided within a horizontal track (11) carried by the lower end of the door wing (4). In case of breakage of the pin of the aforesaid wheel engagement member (10), and the consequent release of the lower end of the door wing (4) from the lower guiding arm (9), an outward swinging of the door wing (4) around the axis of the aforesaid horizontal guiding rod (7) is prevented by a safety device (13) including a stop element (12) mounted on the stationary structure of the door, and configured and arranged to come into contact with the door wing-supporting arm (5) in order to prevent the above rotation. In a variant, the stop element is supported by the vehicle structure in such a way as to be movable between an operative position and an inoperative position, by means of an electrically-operated actuator. In this variant, the stop element is only kept in its operative position when the vehicle speed is above a predetermined threshold value, for example in the order of 5 km/h.

IPC 8 full level

E05D 15/10 (2006.01)

CPC (source: EP)

E05D 15/1068 (2013.01); **E05Y 2201/224** (2013.01); **E05Y 2400/51** (2013.01); **E05Y 2400/52** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3862519 A1 20210811; EP 3862519 B1 20220907

DOCDB simple family (application)

EP 21155130 A 20210204