

Title (en)

A door actuated by a direct linear motor for public transport means, particularly rail vehicles

Title (de)

Mit einem Linearmotor betätigte Tür für den öffentlichen Personennahverkehr, insbesondere Schienenfahrzeuge

Title (fr)

Une porte actionnée directement par un moteur linéaire destinée au transport public, notamment aux véhicules ferroviaires

Publication

EP 1632634 A2 20060308 (EN)

Application

EP 05466012 A 20050902

Priority

CZ 2004922 A 20040902

Abstract (en)

The door actuated by a direct linear motor for public transport means is designed as a sliding door, while a mechanism guide holder /2/ is attached to the vehicle body over the door opening, with a holder /10/ and a linear motor /4/, and a movably attached actuator /3/, on which the door wing /1/ is suspended, a rotor of the linear motor /4/ is a part of the actuator /3/, while at least two end sensors /7/ detecting the end position of the door, at least two stops /5/ fixing the door in the open and closed positions and a cable guiding rod /9/ are arranged on the holder /2/, while at least two tongues /6/ are arranged on the actuator /3/ of the sliding door. The door actuated by a direct linear motor for public transport means is designed as a push-out sliding door, a mechanism frame /3/ is attached to the vehicle body over the door opening, a holder /4/ is attached by means of at least two balance beams /5,6/, an electric linear motor /8/ and a movably attached carriage /7/ are arranged on the holder, the carriage is guided by a pulley /10/ in shape of the guiding rail against the frame /3/, while a linear motor rotor /8/ is a part of the carriage /7/, and the door wing /1/ is placed by its arm /2/ by means of a traveller /9/ on the holder /4/, and the carriage /7/ is connected by gearing via the traveller /9/ with the door wing /1/.

IPC 8 full level

E05F 15/60 (2015.01)

CPC (source: EP)

B61D 19/005 (2013.01); **E05F 15/60** (2015.01); **E05Y 2400/324** (2013.01); **E05Y 2400/328** (2013.01); **E05Y 2800/748** (2013.01); **E05Y 2900/51** (2013.01)

Cited by

ITUD20130106A1; CN111206841A; EP2161150A3; CN110552578A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1632634 A2 20060308; **EP 1632634 A3 20100217**; CZ 2004922 A3 20060412

DOCDB simple family (application)

EP 05466012 A 20050902; CZ 2004922 A 20040902