

Title (en)

DEVICE FOR PIVOTING ONE OR MORE FRONT FLAPS OF A TRACK-GUIDED VEHICLE AND FRONT-FLAP MODULE

Title (de)

VORRICHTUNG ZUM VERSCHWENKEN EINER ODER MEHRERER BUGKLAPPEN EINES SPURGEFÜHRTEN FAHRZEUGES SOWIE BUGKLAPPENMODUL

Title (fr)

DISPOSITIF DE PIVOTEMENT D'UN OU DE PLUSIEURS RABATS FRONTAUX D'UN VÉHICULE SE DÉPLAÇANT SUR UNE VOIE, ET MODULE DE RABATS FRONTAUX

Publication

**EP 2580100 A1 20130417 (DE)**

Application

**EP 11725077 A 20110610**

Priority

- DE 102010023318 A 20100610
- EP 2011059694 W 20110610

Abstract (en)

[origin: WO2011154527A1] The invention relates to a device for pivoting one or more front flaps (1a, 1b) of a track-guided vehicle, in particular rail vehicles. In order to ensure that the opening and closing of the front flap can be implemented as far as possible without friction and without visible joints, the invention provides that the device has at least one carrier element (2) which is connected, on the one hand, to the front flap (1a, 1b) and on the other hand, to the vehicle underframe, wherein the carrier element (2) can be pivoted in the horizontal plane relative to the vehicle underframe, and is designed to change, during the pivoting, the front flap (1a, 1b) from closed state into an opened state, and vice versa. In addition, the device has an activation element (3) which is connected, on the one hand, to the at least one carrier element (2) and, on the other hand, to the vehicle underframe, in order to pivot the at least one carrier element (2) relative to the vehicle underframe. The at least one carrier element (2) has a shift mechanism which is designed to shift the front flap (1a, 1b), in particular in the closed state, in the longitudinal direction of the carrier element (2).

IPC 8 full level

**B61D 17/06** (2006.01)

CPC (source: EP KR US)

**B61D 17/00** (2013.01 - US); **B61D 17/06** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2011154527A1

Cited by

CN109969208A; CN109969209A; CN109969207A; CN109969206A

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)

**WO 2011154527 A1 20111215**; AU 2011263704 A1 20130117; AU 2011263704 B2 20141030; BR 112012031261 A2 20161101; CA 2801879 A1 20111215; CA 2801879 C 20170829; CN 102933445 A 20130213; CN 102933445 B 20150617; DE 102010023318 A1 20111215; EP 2580100 A1 20130417; EP 2580100 B1 20150603; KR 101792304 B1 20171120; KR 20130125286 A 20131118; PL 2580100 T3 20151030; RU 2013102453 A 20140720; RU 2561645 C2 20150827; US 2013133547 A1 20130530; US 8757066 B2 20140624

DOCDB simple family (application)

**EP 2011059694 W 20110610**; AU 2011263704 A 20110610; BR 112012031261 A 20110610; CA 2801879 A 20110610; CN 201180028616 A 20110610; DE 102010023318 A 20100610; EP 11725077 A 20110610; KR 20127032941 A 20110610; PL 11725077 T 20110610; RU 2013102453 A 20110610; US 201113702222 A 20110610