

Title (en)
DOOR HINGE USED IN TRAILER AND SEMI-TRAILER VEHICLES

Title (de)
TÜRSCHARNIER FÜR ANHÄNGER UND SATTELAUFLIEGER

Title (fr)
CHARNIÈRE DE PORTE UTILISÉE DANS DES VÉHICULES À REMORQUE OU SEMI-REMORQUE

Publication
EP 3164559 A1 20170510 (EN)

Application
EP 15724395 A 20150422

Priority
• TR 201406159 A 20140530
• TR 2015000169 W 20150422

Abstract (en)
[origin: WO2015183214A1] The invention is related to the hinge system which is designed to prevent the door wing and hinges to hit approaching surface, to prevent door wing and hinge damaging and to perform its full function when opening and closing during when the vehicle, that are used for transporting in trailer, semi trailer and trucks, goes near to the approaching surface with the aim of loading and unloading with doors are open. Today, in many trailer and semi trailer vehicles, door wings and hinges hit the approaching surface before the clearing block when they are open and get damage. Because of these damages, high amount of service cost manpower loss occur. The door hinge system, which is the subject of invention, hinge part design and door section are modified. New hinge system locks the first hinge axis when the door opens and after that the hinge completes its movement by turning around the second axis. During the door opening, the hinge that is welded on the back bollard continues on slot axis and when the opening is completed the door wing and the hinge stay in a completely safe area. By this means, when the door wing opens completely, the door wing and the hinge take a position behind a safe distance. As a result of this, damage on the door wing and hinges or breaking is prevented. Therefore, the functionality of the latches that stay on the hinge section and the door wing provide convenience of the hinge working system. New hinge system to be used in trailers/semi trailers (1) consist of trailer and semi trailer back door (2), bollard (3), hinge (4), ring (5), hinge pin (6), hinge slot (7), hinge shaft (8) and tabs (9).

IPC 8 full level
E05D 3/12 (2006.01)

CPC (source: EP)
E05D 3/127 (2013.01); **E05D 11/06** (2013.01); **E05D 11/1007** (2013.01); **E05D 11/1057** (2013.01); **E05Y 2900/516** (2013.01)

Citation (search report)
See references of WO 2015183214A1

Citation (examination)
FR 2806121 A1 20010914 - LIBNER SA [FR]

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015183214 A1 20151203; EP 3164559 A1 20170510; RU 2016151644 A 20180703; RU 2016151644 A3 20180703

DOCDB simple family (application)
TR 2015000169 W 20150422; EP 15724395 A 20150422; RU 2016151644 A 20150422