

Title (en)
HYDRAULIC SYSTEM FOR OPENING AND CLOSING WINGS OF A TRUCK

Title (de)
HYDRAULIKSYSTEM ZUM HOCHSCHWENKEN UND HERABLASSEN VON FLÜGEL-AUFBAUTEILEN EINES LASTKRAFTWAGENS

Title (fr)
SYSTÈME HYDRAULIQUE POUR FAIRE PIVOTER LES PORTES ÉLITRES D'UN CAMION

Publication
EP 1776526 A1 20070425 (DE)

Application
EP 05750504 A 20050519

Priority
• EP 2005005425 W 20050519
• DE 102004031202 A 20040628

Abstract (en)
[origin: WO2006000277A1] The invention relates to a hydraulic system for pivoting the lateral structural parts of a motor lorry upwards and downwards. Said hydraulic system comprises at least one hydraulic control unit (14) provided with a hydraulic pump (22) and hydraulic valves; a first hydraulic cylinder and a second hydraulic cylinder (7a, 8a) for pivoting a first component; and a third hydraulic cylinder and a fourth hydraulic cylinder (8b) for pivoting a second component. The hydraulic cylinders (7a, 7b, 8a, 8b) are embodied in a single-acting manner with an oil chamber (32) and a spring counteraction. A check valve (18) is provided between the at least one external hydraulic line and the oil chambers (32), said check valve blocking or enabling a reflux of the hydraulic liquid from the oil chamber (32) into an external hydraulic line (12, 12a, 12b, 13). In regulated positions of the lateral structural parts and when the hydraulic pump (22) is not actuated, the check valve (18) blocks the reflux of the hydraulic liquid from the oil chamber (32) and the external hydraulic line is depressurised.

IPC 8 full level
F15B 13/06 (2006.01); **B60J 5/04** (2006.01); **B60J 7/057** (2006.01); **E05F 15/00** (2006.01); **E05F 15/04** (2006.01); **F15B 15/20** (2006.01)

CPC (source: EP US)
F15B 13/06 (2013.01 - EP US); **F15B 15/202** (2013.01 - EP US)

Citation (search report)
See references of WO 2006000277A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102004031202 A1 20060112; **DE 102004031202 B4 20070419**; AU 2005256348 A1 20060105; CN 1946941 A 20070411;
EP 1776526 A1 20070425; JP 2007533931 A 20071122; JP 4068660 B2 20080326; US 2007130937 A1 20070614;
WO 2006000277 A1 20060105

DOCDB simple family (application)
DE 102004031202 A 20040628; AU 2005256348 A 20050519; CN 200580013130 A 20050519; EP 05750504 A 20050519;
EP 2005005425 W 20050519; JP 2007508875 A 20050519; US 64658006 A 20061228