Title (en)

STRADDLE CARRIER FOR USE IN CONTAINER TERMINALS AND FOR GENERAL TRANSPORT PURPOSES AND METHOD FOR THE CONTROL THEREOF

Title (de)

PORTALHUBWAGEN ZUM EINSATZ IN CONTAINERTERMINALS UND FÜR ALLGEMEINE TRANSPORTZWECKE UND VERFAHREN ZUR STEUERUNG DESSELBEN

Title (fr)

CHARIOT CAVALIER DESTINÉ À ÊTRE UTILISÉ DANS DES TERMINAUX À CONTENEURS ET POUR DES TRANSPORTS COURANTS ET PROCÉDÉ DE COMMANDE DE CE CHARIOT CAVALIER

Publication

EP 2483194 A1 20120808 (DE)

Application

EP 10763605 A 20100922

Priority

- DE 102009048133 A 20091002
- EP 2010005787 W 20100922

Abstract (en)

[origin: WO2011038851A1] The invention relates to a straddle carrier (1) for use in container terminals and for general transport purposes, comprising a steering wheel (3), a brake pedal (4) and an accelerator pedal (5), the operator of the straddle carrier (1) being able to control said carrier by actuating said components, also comprising a steering drive (6), a brake drive (7) and a fuel dosing drive (8) by means of which the steering wheel actuation, brake pedal actuation or accelerator pedal acceleration is converted into the steering processes, braking processes and/or fuel dosing processes. In order to prevent the straddle carrier (1) from overturning in both extreme and dangerous situations, said straddle carrier (1) is equipped with a calculation unit (2) which is connected on one side to the steering wheel (3), the brake pedal (4) and the accelerator pedal (5), and on the other side to the steering drive (6), the brake drive (7) and the fuel dosing drive (8), in which the actual position of the centre of gravity (SPL), an actual curve radius (KR) and an actual speed (V) of the straddle carrier (1) can be continuously detected, and an actual range of the authorised operational state of the straddle carrier (1) can be continuously determined based on the detected actual value. Said calculation unit controls whether an operational state of the straddle carrier (1) actuated by the driver of the said straddle carrier (1) by correspondingly actuating the steering wheel (3), the brake pedal (4) and/or the accelerator pedal (5) is within the actual determined range of the authorised operational state of the straddle carrier, and if said test demonstrates that said straddle carrier (1) is in a momentary non-authorised operational state, then control signals can be changed between the operator of the steering wheel (3), the brake pedal (4) and/or the accelerator pedal (5) such that the operational state of the straddle carrier (1) driven by the operator can be attained as fast as possible without abandoning the momentary determined range of the authorised operational state of the straddle carrier (1).

IPC 8 full level

B66C 15/04 (2006.01); **B66C 19/00** (2006.01)

CPC (source: EP)

B66C 15/045 (2013.01); **B66C 19/007** (2013.01)

Citation (search report)

See references of WO 2011038851A1

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 SE SI SK SM TR

DOCDB simple family (publication)

DE 102009048133 A1 20110407; CN 102686501 A 20120919; CN 102686501 B 20150121; DK 2483194 T3 20131007; EP 2483194 A1 20120808; EP 2483194 B1 20130710; ES 2429499 T3 20131115; PL 2483194 T3 20131231; PT 2483194 E 20130904; WO 2011038851 A1 20110407

DOCDB simple family (application)

DE 102009048133 A 20091002; CN 201080044988 A 20100922; DK 10763605 T 20100922; EP 10763605 A 20100922; EP 2010005787 W 20100922; ES 10763605 T 20100922; PL 10763605 T 20100922; PT 10763605 T 20100922