

Title (en)
REACH FORKLIFT TRUCK CHASSIS AND REACH FORKLIFT TRUCK

Title (de)
GABELSTAPLERFAHRGESTELL UND GABELSTAPLER

Title (fr)
CHÂSSIS DE CHARIOT ÉLEVATEUR À FOURCHE ÉLEVATRICE ET CHARIOT ÉLEVATEUR À FOURCHE ÉLEVATRICE

Publication
EP 3766826 A1 20210120 (EN)

Application
EP 20185908 A 20200715

Priority
• CN 201910650414 A 20190718
• CN 201921133806 U 20190718

Abstract (en)
A reach forklift truck chassis and a reach forklift truck are provided according to the present application. The reach forklift truck chassis includes a drive wheel bracket, an auxiliary wheel bracket, a drive wheel and an auxiliary wheel. A drive wheel compression spring is connected to an upper side of the drive wheel bracket. A middle part of the auxiliary wheel bracket is hinged to a first rotary shaft. A locking device is provided at a first end of the auxiliary wheel bracket, and the locking device is configured to control the first rotary shaft to be rigidly or rotationally connected to the auxiliary wheel bracket. An auxiliary wheel compression spring is connected between a second end of the auxiliary wheel bracket and the drive wheel bracket, and after compression deformation, the auxiliary wheel compression spring presses the auxiliary wheel bracket up and presses down the drive wheel bracket, and an input end of the locking device is electrically connected with an output end of the controller. By adding a locking device, the connection rigidity between the auxiliary wheel and the vehicle body and the connection rigidity between the auxiliary wheel bracket and the vehicle body can be adjusted, thereby adjusting the overall rigidity of the vehicle, which can effectively improve the safety of the vehicle, balance the advantages of rigid suspension and elastic suspension, and improve comfort and stability.

IPC 8 full level
B66F 9/075 (2006.01); **B66F 9/10** (2006.01)

CPC (source: EP)
B66F 9/07513 (2013.01); **B66F 9/07586** (2013.01); **B66F 9/10** (2013.01)

Citation (search report)
• [A] JP H06191251 A 19940712 - TOYODA AUTOMATIC LOOM WORKS
• [A] JP 2000062428 A 20000229 - TOYODA AUTOMATIC LOOM WORKS
• [A] JP 2016030658 A 20160307 - MITSUBISHI NICHYU FORKLIFT CO

Cited by
CN110255447A; CN114435051A; CN115063993A; CN118418716A

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)
EP 3766826 A1 20210120; EP 3766826 B1 20230607

DOCDB simple family (application)
EP 20185908 A 20200715