

Title (en)

FORKLIFT COMPRISING AUXILIARY WHEEL AND METHOD FOR STABILIZING SUCH A FORKLIFT

Title (de)

GABELSTAPLER MIT HILFSRAD UND VERFAHREN ZUR STABILISIERUNG SOLCH EINES GABELSTAPLERS

Title (fr)

CHARIOT ÉLEVATEUR COMPRENANT UNE ROUE AUXILIAIRE ET PROCÉDÉ DE STABILISATION D'UN TEL CHARIOT ÉLEVATEUR

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Application

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Priority

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Abstract (en)

The invention relates to a forklift (1) comprising a load carrier (9), coupled to a mast, a control unit, at least one drive wheel (17), at least one support wheel (13), and at least one sensor device (21) for detection of a guiding device (23), wherein the forklift (1) may be operated in a free-range mode and at least a semi-automatic mode. The forklift further comprises at least one auxiliary wheel (25), selectively movable between a lower position (37) in which a resilient contact between an underlying floor surface (27) and said at least one auxiliary wheel (25) is established, and an elevated position (47) in which said at least one auxiliary wheel (25) is elevated from said floor surface (27). The control unit is arranged to receive an indication that a transversal operation of the load carrier (9) is initiated, and to detect that the at least one auxiliary wheel (25) is in resilient contact with the underlying floor surface (27), wherein the control unit controls the at least one auxiliary wheel (25) to shift from a resilient contact to a rigid contact with the underlying floor surface (27). The invention also relates to a method for performing a material handling operation with a forklift (1), wherein the method provides an improved stability to said forklift (1), and software for using the method.

IPC 8 full level

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Citation (search report)

- [A] GB 2530570 A 20160330 - WAINWRIGHT EDWARD [GB]
- [A] US 2016340162 A1 20161124 - STANDARD ADAM WAYNE [US], et al
- [A] EP 3222491 A1 20170927 - LINDE MATERIAL HANDLING GMBH [DE]
- [A] EP 3272699 A1 20180124 - KION WAREHOUSE SYSTEMS GMBH [DE]

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