

Title (en)

LAYER SUPPORTING DEVICE FOR A LIFT-TRUCK, MOUNTED ON A VERTICALLY MOVABLE LOAD-CARRIER

Publication

EP 0499250 A3 19930317 (DE)

Application

EP 92102412 A 19920213

Priority

DE 4104346 A 19910213

Abstract (en)

[origin: EP0499250A2] A layer supporting device for a lift truck, mounted on a vertically movable load carrier, is equipped with a goods-layer centring gripper device (20) having four centring grippers (33) arranged at right angles to one another. At least one centring gripper (33) can be pivoted about a top horizontal axis of rotation, while two centring grippers (33) located opposite one another and/or adjoining one another at right angles are controlled in parallel. Located inside the goods-layer centring gripper device (20) is a vertically movable goods-layer holding-down means (21) operatively coupled to the goods-layer centring gripper device (20) and having a holding-down plate (32). The latter is equipped at least partly with friction-increasing and/or position-fixing elements (37) which are loosely and vertically displaceably arranged in a double-webbed perforated plate (59) in geometrically regular and/or irregular formation. Arranged below the covering area of the goods-layer centring gripper device (20) is a goods-layer transfer bracket (19) which is operatively coupled to the goods-layer centring gripper device (20) and is provided with friction-reducing elements (38). Goods-layer centring gripper device (20), goods-layer holding-down means (21) and goods-layer transfer bracket (19) are fastened to a common load carrier (13) and have separate drives. To relieve the strain on the warehouse personnel, the sequences of movement of the layer supporting device (18) can be controlled manually and/or automatically by means of an MC (55), for which reason the goods-layer transfer bracket (19) is equipped with at least one optical and/or optoelectronic vertical-alignment device (39 or 57). <IMAGE>

IPC 1-7

B66F 9/18

IPC 8 full level

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CPC (source: EP)

B66F 9/06 (2013.01); **B66F 9/10** (2013.01); **B66F 9/18** (2013.01)

Citation (search report)

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