

Title (en)  
Industrial lift truck with speed control

Title (de)  
Industriegabelstapler mit Geschwindigkeitssteuerung

Title (fr)  
Chariot élévateur industriel doté d'un contrôle de la vitesse

Publication  
**EP 2123594 A1 20091125 (EN)**

Application  
**EP 08156829 A 20080523**

Priority  
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Abstract (en)  
The present invention relates to industrial lift truck (1), comprising: a lifting frame having a vertically movable load lifting device (9), a hydraulic cylinder assembly (11) for driving the load lifting device (9), a variable hydraulic pump (17) for supplying hydraulic fluid to the hydraulic cylinder assembly (11), a variable hydraulic valve assembly (19a-b) arranged for controlling the hydraulic fluid supplied to/drained from the hydraulic cylinder assembly (11), a position measuring assembly (25a-b) for measuring vertical positions of the load lifting device (9) with respect to the lifting frame, an operator input device (31) for choosing an operation mode of the load lifting device (9), a controller (33) comprising: means for calculating the actual speed of the load lifting device (9) based on the vertical position measurements, means for generating a set point speed of the load lifting device (9) based on the chosen operation mode, and means (37) for comparing the calculated actual speed with the set point speed, The controller (33) is characterised in that it comprises means for determining any differences between the calculated actual speed and the set point speed, and means (39) for sending signals to the hydraulic pump to change its speed, and/or signals to the hydraulic valve assembly (19a-b) to change its valve opening degree, if a difference exist between the calculated actual speed and the set point speed of the load lifting device (9), so as to compensate for the difference.

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Citation (applicant)  
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