

Title (en)  
Lift truck with extensible mast

Title (de)  
Gabelstapler mit einem ausfahrbaren Mast

Title (fr)  
Chariot élévateur avec un mât extensible

Publication  
**EP 1151959 B1 20041013 (EN)**

Application  
**EP 01660081 A 20010503**

Priority  
FI 20001039 A 20000504

Abstract (en)  
[origin: EP1151959A1] The invention relates to a swing mast truck particularly designed for warehouse operations, comprising a mast structure that includes a fixed mast (I), an intermediate carriage (II) movable with respect to the mast, a top carriage (III) movable with respect to the intermediate carriage and a lifting carriage (19) movable in the top carriage, two hydraulic cylinders (14, 20) for moving the carriages and power transmission chains (29, 25, 26) for transmitting the thrusting motion of the cylinder pistons to the carriages. In the mast truck according to the invention, the truck length in the driving direction is reduced, the turning radius and agility in general is improved, the blind area is reduced and the torque balance is ensured. This has been achieved by placing the hydraulic cylinders (14, 20) at the sides of the structure and by turning the transmission wheel (13) located at the free end of the free-lifting jack piston (14m) to be parallel with the driving direction. <IMAGE>

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**B66F 9/08**; **B66F 9/20**

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
CN105152085A; CN111232890A; US2010181148A1; US8434598B2; US9878887B2; WO2018165587A1

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