

Title (en)

Industrial truck with a piston-cylinder arrangement and an improved cylinder bearing

Title (de)

Flurförderzeug mit Kolben-Zylinder-Anordnung und verbesserter Zylinderlagerung

Title (fr)

Chariot de manutention avec un agencement piston-cylindre et un palier de cylindre amélioré

Publication

**EP 1593644 A3 20110907 (DE)**

Application

**EP 05009845 A 20050504**

Priority

DE 102004022338 A 20040506

Abstract (en)

[origin: EP1593644A2] The industrial truck has a piston and cylinder arrangement (20) comprising a cylinder (26) housing an extending and retracting piston (22) for driving components (12,14) of a lift frame (10). The piston is connected to one component (14) for force transmission, and the cylinder is supported on a bearing (30,34) of the respective other component (12) allocated to the cylinder and is connected to it for force transmission. The cylinder is in engagement with the cylinder bearing in such a way that it is movable relative to the cylinder bearing.

IPC 8 full level

**B66F 9/08** (2006.01); **B66F 9/22** (2006.01)

CPC (source: EP US)

**B66F 9/08** (2013.01 - EP US); **B66F 9/22** (2013.01 - EP US)

Citation (search report)

- [X] WO 8102290 A1 19810820 - TOWMOTOR CORP [US], et al
- [X] DE 1556601 A1 19700305 - LINDE AG
- [X] EP 0899232 A2 19990303 - NISSAN MOTOR [JP]
- [A] US 5934171 A 19990810 - THOMPSON PAUL S [US]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

**EP 1593644 A2 20051109; EP 1593644 A3 20110907; EP 1593644 B1 20130626**; DE 102004022338 A1 20051124;  
US 2006027094 A1 20060209; US 7340989 B2 20080311

DOCDB simple family (application)

**EP 05009845 A 20050504**; DE 102004022338 A 20040506; US 11962005 A 20050502