

Title (en)

Hydraulic system especially for an industrial truck

Title (de)

Hydraulische Anlage insbesondere für ein Flurförderzeug

Title (fr)

Système hydraulique notamment pour un chariot de manutention

Publication

**EP 1004542 A1 20000531 (DE)**

Application

**EP 99123341 A 19991123**

Priority

DE 19854417 A 19981125

Abstract (en)

A work machine, especially an industrial truck, has a hydraulic plant that has at least one tank (1) for hydraulic fluid and at least one hydraulic pump (5). The hydraulic pump is located inside the tank. An electrical drive motor (3) of the hydraulic pump is located inside the tank. An electrical drive motor (3) of the hydraulic pump is located outside the tank and a shaft connecting the two is sealed with a shaft seal with respect to the tank. A priority valve is located inside the tank and is fastened by a flange connection to the hydraulic pump.

Abstract (de)

Gegenstand der Erfindung ist eine Arbeitsmaschine, insbesondere Flurförderzeug, mit einer hydraulischen Anlage, die mindestens einen Tank (1) für Hydraulikfluid und mindestens eine Hydraulikpumpe (5) aufweist. Erfindungsgemäß ist die Hydraulikpumpe (5) innerhalb des Tanks (1) angeordnet. Ein Prioritätsventil (8a) ist mittels einer Flanschverbindung an der Hydraulikpumpe (5) befestigt. Ein elektrischer Antriebsmotor (3) der Hydraulikpumpe (5) kann ebenfalls innerhalb des Tanks (1) angeordnet sein. <IMAGE>

IPC 1-7

**B66F 9/22**; F04B 23/02; F04B 17/03; F15B 1/26

IPC 8 full level

**B66F 9/22** (2006.01); **F04B 17/03** (2006.01); **F04B 23/02** (2006.01); **F15B 1/26** (2006.01)

CPC (source: EP US)

**B66F 9/22** (2013.01 - EP US); **F04B 17/03** (2013.01 - EP US); **F04B 23/021** (2013.01 - EP US); **F04B 23/023** (2013.01 - EP US); **F15B 1/26** (2013.01 - EP US)

Citation (search report)

- [XY] DE 19612582 A1 19971002 - MIAG FAHRZEUGBAU GMBH [DE]
- [Y] FR 1586186 A 19700213
- [A] US 4904162 A 19900227 - SUZUKI RYOZO [JP], et al

Cited by

EP1612418A1; CN100343536C; WO2009030793A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1004542 A1 20000531**; **EP 1004542 B1 20060125**; DE 19854417 A1 20000531; DE 59913077 D1 20060413; US 6290474 B1 20010918

DOCDB simple family (application)

**EP 99123341 A 19991123**; DE 19854417 A 19981125; DE 59913077 T 19991123; US 44930499 A 19991124