

Title (en)

Hydraulic lifting device for battery-powered industrial vehicle

Title (de)

Hydraulische Hubvorrichtung für batteriebetriebene Flurförderzeuge

Title (fr)

Appareil de levage hydraulique pour chariot élévateur électrique

Publication

**EP 1577257 B1 20090114 (DE)**

Application

**EP 05004255 A 20050226**

Priority

DE 102004011913 A 20040311

Abstract (en)

[origin: EP1577257A2] The device has a hydraulic pump (5) coupled to an electric machine. The pump provides pressure medium being sucked from a tank for consumers. A lifting valve and a check valve (17) are disposed in a pressurizing or lifting conduit to a lifting cylinder. A lowering branch is connected between the lifting cylinder and the check valve. The lifting valve is disposed downstream from branching of a conduit.

IPC 8 full level

**B66F 9/22** (2006.01); **F15B 11/16** (2006.01)

CPC (source: EP US)

**B66F 9/22** (2013.01 - EP US); **F15B 11/163** (2013.01 - EP US); **F15B 11/165** (2013.01 - EP US); **F15B 2211/20515** (2013.01 - EP US); **F15B 2211/20538** (2013.01 - EP US); **F15B 2211/253** (2013.01 - EP US); **F15B 2211/30535** (2013.01 - EP US); **F15B 2211/50536** (2013.01 - EP US)

Cited by

DE102017131164A1; WO2014095240A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**EP 1577257 A2 20050921**; **EP 1577257 A3 20050928**; **EP 1577257 B1 20090114**; DE 102004011913 A1 20051013; DE 102004011913 B4 20051229; DE 502005006449 D1 20090305; US 2005198950 A1 20050915; US 7181910 B2 20070227

DOCDB simple family (application)

**EP 05004255 A 20050226**; DE 102004011913 A 20040311; DE 502005006449 T 20050226; US 7551105 A 20050309