

Title (en)

Electro-hydraulic lifting control device for industrial use vehicles

Title (de)

Elektrohydraulische Hubsteuervorrichtung für Flurförderfahrzeuge

Title (fr)

Dispositif électro-hydraulique de commande de levage pour véhicules de manutention

Publication

EP 1369598 B1 20070926 (DE)

Application

EP 03002659 A 20030211

Priority

DE 20208577 U 20020603

Abstract (en)

[origin: EP1369598A1] The device has a lifting branch with a three way flow regulator (R1) that is provided between a pressure source and a hydraulic cylinder to lift control. A lowering branch with a two-way flow regulator (R2) has a proportional magnet and a pressure balance (10). A redundancy-switching unit provided between the pilot pressure circuits of the regulators and a reservoir is actively operated between the closed and open positions.

IPC 8 full level

B66F 9/22 (2006.01); **F15B 11/00** (2006.01); **F15B 11/05** (2006.01); **F15B 20/00** (2006.01)

CPC (source: EP US)

B66F 9/22 (2013.01 - EP US); **F15B 11/003** (2013.01 - EP US); **F15B 20/008** (2013.01 - EP US); **F15B 2211/20538** (2013.01 - EP US); **F15B 2211/3116** (2013.01 - EP US); **F15B 2211/40576** (2013.01 - EP US); **F15B 2211/413** (2013.01 - EP US); **F15B 2211/4159** (2013.01 - EP US); **F15B 2211/426** (2013.01 - EP US); **F15B 2211/428** (2013.01 - EP US); **F15B 2211/465** (2013.01 - EP US); **F15B 2211/5059** (2013.01 - EP US)

Cited by

EP2236452A1; EP2985473A1; EP3037678A1; DE10357631B4; DE102016003972A1; DE102019111295A1; EP1754682A1; US10962031B2; DE10303385B4; DE102016209509A1; DE102007034746A1; DE102007034746B4

Designated contracting state (EPC)

DE FR IT SE

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