

Title (en)

Control system, especially for use in hydraulic lifting devices

Title (de)

Steuervorrichtung, insbesondere für den Einsatz bei hydraulisch arbeitenden Hubeinrichtungen

Title (fr)

Dispositif de commande, utilisé en particulier dans des dispositifs de levage hydraulique

Publication

EP 1331199 A3 20040512 (DE)

Application

EP 02025356 A 20021114

Priority

DE 10202607 A 20020124

Abstract (en)

[origin: EP1331199A2] The control device includes a pressure scale (32) connected to the return line (26) of a hydraulic hoisting mechanism (10). An unblocking mechanism (44) moves the pressure scale to a control position during the lowering of a load to allow the controlled flow of fluid through the return line, or to the blocking position to block the fluid flow through the return line during the failure of a throttle valve.

IPC 1-7

B66F 9/22; **F15B 11/05**; **F15B 11/044**; **F15B 20/00**

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 11/05** (2013.01 - EP US); **F15B 20/002** (2013.01 - EP US); **F15B 20/008** (2013.01 - EP US); **F15B 2211/40515** (2013.01 - EP US); **F15B 2211/40576** (2013.01 - EP US); **F15B 2211/413** (2013.01 - EP US); **F15B 2211/41581** (2013.01 - EP US); **F15B 2211/46** (2013.01 - EP US); **F15B 2211/5756** (2013.01 - EP US); **F15B 2211/6355** (2013.01 - EP US); **F15B 2211/7052** (2013.01 - EP US); **F15B 2211/72** (2013.01 - EP US)

Citation (search report)

- [XDY] DE 19622763 A1 19971211 - REXROTH MANNESMANN GMBH [DE]
- [A] DE 4239321 A1 19940526 - HEILMEIER & WEINLEIN [DE]
- [YA] EP 0893607 A1 19990127 - HEILMEIER & WEINLEIN [DE]
- [A] DE 10010670 A1 20010913 - JUNGHEINRICH AG [DE]
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EP1895167A3; US7650907B2; DE102012107256B4

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1331199 A2 20030730; **EP 1331199 A3 20040512**; **EP 1331199 B1 20060913**; AT E339386 T1 20061015; DE 10202607 C1 20030731; DE 50208129 D1 20061026; ES 2271174 T3 20070416; US 2003136124 A1 20030724; US 6786132 B2 20040907

DOCDB simple family (application)

EP 02025356 A 20021114; AT 02025356 T 20021114; DE 10202607 A 20020124; DE 50208129 T 20021114; ES 02025356 T 20021114; US 34917403 A 20030123