

Title (en)
HYDRAULIC LIFTING DEVICE

Publication
EP 0057355 A3 19821215 (DE)

Application
EP 82100220 A 19820114

Priority
DE 3103745 A 19810204

Abstract (en)

[origin: EP0057355A2] 1. Hydraulic lifting apparatus containing a pump (1) with delivery flow adjustment 2), a hydraulic motor (piston-cylinder 6 or the like), lifting and lowering pipes (4, 20, 21, 22, 8, 17), and a control device (30 to 33) including valves (5, 14, 24, 28), characterised by the following features : a) the lifting and lowering pipes (4, 20, 21, 22, 8, 17) have a common pipe portion (between the points 40, 41) through which the flow is in the same direction and in which a proportionally acting throttle valve (5) is disposed ; b) the lowering pipe (20, 21, 22) is inserted into the common pipe portion, by way of a controllable shut-off valve (24), upstream (in the direction of flow) of the proportionally acting throttle valve (5) ; c) a return pipe (8, 17) is branched off from the common pipe portion, by way of a second shut-off valve (14), downstream (in the direction of flow) of the proportionally acting throttle valve (5).

IPC 1-7

B66F 3/24; B66F 7/16; B66F 9/22; B66B 9/04

IPC 8 full level

B66B 1/04 (2006.01); **B66B 9/04** (2006.01); **B66F 3/24** (2006.01); **B66F 7/16** (2006.01); **B66F 9/22** (2006.01)

CPC (source: EP)

B66B 1/24 (2013.01); **B66F 3/24** (2013.01); **B66F 7/16** (2013.01); **B66F 9/22** (2013.01)

Citation (search report)

- [Y] DE 2800814 A1 19790712 - BOSCH GMBH ROBERT
- [A] AT 270131 B 19690410 - REXROTH GMBH G L [DE]
- [A] DE 1204792 C
- [A] US 3437012 A 19690408 - BJORKLUND LUDVIG
- [Y] SOVIET INVENTIONS ILLUSTRATED, Week C06, 19. März 1980, Sektion Q 57; & SU-A-663896

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EP1635070A1; CN1079073C; EP0179249A3; EP0219052A3; CN103089600A; FR2593796A1; US2014174575A1; US9328832B2

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