

Title (en)

Hydraulic booster device for linear actuator.

Title (de)

Hydraulische Druckübersetzer für geradlinige Stellkolben.

Title (fr)

Dispositif multiplicateur hydraulique pour vérin rectiligne.

Publication

EP 0468788 A1 19920129 (EN)

Application

EP 91306788 A 19910725

Priority

US 55822890 A 19900726

Abstract (en)

A linear actuator 1 comprising: a housing 2 having a primary piston chamber 3 and a booster piston chamber 4; a piston rod 5 disposed within the housing 2; a primary piston 6 secured to one end of the piston rod 5 and disposed within the primary piston chamber 3, the primary piston chamber 3 having a first primary compartment 7 and a second primary compartment 8 disposed on opposite sides of the primary piston 6; a booster piston 9 movably disposed about the piston rod 5 and within the booster piston chamber 4, the booster piston chamber 4 having a first booster compartment 10 and a second booster compartment 11 disposed on opposite sides of the booster piston 9; a thrust column 12 attached to the booster piston 9 and disposed between the booster piston 9 and the piston rod 5 so as to define a fluid channel 16; a first port 13 capable of supplying or draining fluid or air to or from the first primary compartment 7 and the first booster compartment 10 concurrently, wherein the first primary compartment 7 and the first booster compartment 10 are in fluid contact via said fluid channel 16 disposed between the thrust column 12 and the piston rod 5; a second port 14 capable of supplying and draining fluid or air to or from the second primary compartment 8; and a third port 15 capable of supplying and draining fluid or air to or from the second booster 11 compartment. <IMAGE>

IPC 1-7

F15B 15/14; F16K 31/122

IPC 8 full level

F15B 15/14 (2006.01)

CPC (source: EP)

F15B 15/1409 (2013.01)

Citation (search report)

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- [X] US 3018762 A 19620130 - KORB KARL W
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Designated contracting state (EPC)

DE FR GB IT NL

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