

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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Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

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