

Title (en)

Load-independent speed control of hydraulic actuators for construction machines

Title (de)

Lastdruckunabhängige Steuerung der Geschwindigkeit von hydraulischen Stellelementen an Baumaschinen

Title (fr)

Commande de vitesse, ne dépendant pas de la pression de charge pour éléments hydrauliques de réglage sur des machines de construction

Publication

EP 0615024 B1 20010411 (DE)

Application

EP 94101011 A 19940125

Priority

DE 4307872 A 19930312

Abstract (en)

[origin: EP0615024A2] Load-independent speed control of hydraulic actuators in the case of leading loads, in particular for construction machines, is proposed, comprising at least one pump, at least one control spool, and at least one pressure balance. The pressure balance is inserted either in the connecting line of the space, to be emptied in a controlled manner, of the actuator, designed as hydraulic cylinder, to the control spool or else in the line between the outlet of the control spool and the tank. The return area of the associated control piston is designed as a differential-pressure orifice. The pressure indication before the passage of the oil flow through the differential-pressure orifice to the pressure balance can be brought about via a line to the side of the pressure balance remote from the spring chamber. <IMAGE>

IPC 1-7

E02F 9/22

IPC 8 full level

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CPC (source: EP)

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Cited by

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