

Title (en)

Control arrangement and method for a piston-cylinder arrangement

Title (de)

Steuervorrichtung und Steuerverfahren für eine Kolben-Zylinder-Anordnung

Title (fr)

Dispositif et méthode de contrôle pour un ensemble piston-cylindre

Publication

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Application

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Priority

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- DE 102005043367 A 20050912

Abstract (en)

[origin: WO2007031163A1] Control apparatus for a piston/cylinder arrangement, wherein the piston/cylinder arrangement has a cylinder and a piston which is accommodated at least partially in the cylinder and divides the cylinder interior along the cylinder axis into two part spaces, having a valve arrangement which is connected to a first part space and assumes a closed position which prevents a fluid which is held in the first part space from flowing out of this part space if the pressure in the fluid is smaller than a pressure control value which is set on the valve arrangement, and which opens into an opening position which makes this outflow possible if the pressure in the fluid is correspondingly greater than the pressure control value which has been set, having a priming device which is coupled to the valve arrangement and the first part space, serves to prepare for the damping of a pressure increase in the fluid which is brought about by a movement of the piston which is caused by a load which acts on the piston in the direction of the first part space, and by means of which a pressure increase can be generated in the fluid to a predefined pressure priming value independently of the load, and a method for controlling a piston/cylinder arrangement of this type and the use of a control apparatus of this type for a piston/cylinder arrangement of a hydraulic press.

IPC 8 full level

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