

Title (en)
CONTROL APPARATUS AND CONTROL METHOD FOR A PISTON/CYLINDER ARRANGEMENT

Title (de)
STEUERVORRICHTUNG UND STEUERVERFAHREN FÜR EINE KOLBEN-ZYLINDER-ANORDNUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE COMMANDE D'UN SYSTÈME PISTON-CYLINDRE

Publication
EP 1924773 B1 20181205 (DE)

Application
EP 06776836 A 20060814

Priority
• EP 2006008026 W 20060814
• 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
F15B 11/02 (2006.01)

CPC (source: EP US)
B30B 15/16 (2013.01 - EP US); **F15B 1/02** (2013.01 - EP US); **F15B 21/008** (2013.01 - EP US); **F15B 2211/555** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005043367 A1 20070315; **DE 102005043367 B4 20160908**; CN 101305189 A 20081112; CN 101305189 B 20110112; DK 1924773 T3 20190311; EP 1924773 A1 20080528; EP 1924773 B1 20181205; EP 2280178 A1 20110202; EP 2280178 B1 20121212; ES 2397822 T3 20130311; ES 2710673 T3 20190426; JP 2009508060 A 20090226; JP 4885223 B2 20120229; PL 1924773 T3 20190531; PT 1924773 T 20190321; TR 201900650 T4 20190221; US 2010212490 A1 20100826; US 8215108 B2 20120710; WO 2007031163 A1 20070322

DOCDB simple family (application)
DE 102005043367 A 20050912; CN 200680041812 A 20060814; DK 06776836 T 20060814; EP 06776836 A 20060814; EP 10012415 A 20060814; EP 2006008026 W 20060814; ES 06776836 T 20060814; ES 10012415 T 20060814; JP 2008529491 A 20060814; PL 06776836 T 20060814; PT 06776836 T 20060814; TR 201900650 T 20060814; US 6664806 A 20060814