

Title (en)

Hydraulic gripper with pressure limiting valve

Title (de)

Hydraulikgreifer mit Druckbegrenzungsventil

Title (fr)

Grappin hydraulique avec soupape de limitation de pression

Publication

EP 0870723 A3 20000503 (DE)

Application

EP 98106326 A 19980407

Priority

DE 19715010 A 19970411

Abstract (en)

[origin: EP0870723A2] A pressure control valve (1) is integrated in the hydraulic cylinder (26) and is inaccessible from outside. The valve has a conical piston (15) with seating co-operating with the spring (10). When a pre-set oil pressure (P) is exceeded for the hydraulic oil, the conical piston or the ball is pressed against the spring. The oil then passes it through a front opening (24) in the inner housing enclosing the conical piston or the ball into a chamber (25) in the pressure control valve and escapes from it to a hole for discharging the oil.

IPC 1-7

B66C 3/16; **F16K 17/04**

IPC 8 full level

B66C 3/16 (2006.01); **F15B 15/14** (2006.01)

CPC (source: EP)

B66C 3/16 (2013.01); **F15B 15/1433** (2013.01); **F15B 15/149** (2013.01)

Citation (search report)

- [XAY] GB 2031519 A 19800423 - COAL IND
- [Y] DE 4135865 A1 19930506
- [Y] GB 723375 A 19550209 - DOWTY EQUIPMENT LTD
- [Y] DE 2254263 A1 19740516 - HEILMEIER & WEINLEIN
- [A] US 2877575 A 19590317 - STEDT HARRY C

Cited by

CN108381215A; US11668251B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0870723 A2 19981014; **EP 0870723 A3 20000503**; DE 19715010 A1 19981015; DE 19715010 B4 20041209

DOCDB simple family (application)

EP 98106326 A 19980407; DE 19715010 A 19970411