

Title (en)
CAPACITY CONTROL OR TORQUE LIMITATION

Publication
EP 0211096 B1 19900613 (DE)

Application
EP 85109781 A 19850803

Priority
EP 85109781 A 19850803

Abstract (en)
[origin: EP0211096A1] 1. Power-controlled hydraulic pump having variable displacement volume and the following features : an adjusting member (4, 7, 10) having a servo piston (7) is provided for adjusting the displacement volume (Q) ; the servo piston (7) is displaceable by control pressure (Pc) against the effect of a return means (10) ; the return means (10) is designed in such a way that a certain level of the control pressure (Pc) corresponds to each position of the servo piston (7) ; a control valve (20) controls the level of the control pressure (Pc) and to this end has a control member (22) having a first control piston area (A1) which is acted upon by the working pressure (Ps) against the force (F1) of a valve spring (28), and a second control piston area (A2) which is acted upon by the control pressure (Pc) against the effect of the first control piston area (A2), characterized in that the return means (10) contains one or more springs (15, 16) in order to produce a progressively increasing total return force during adjustment for smaller displacement volumes (Q), and in that the second control piston area (A2) is larger than the first control piston area (A1).

IPC 1-7
F04B 1/30

IPC 8 full level
F04B 1/32 (2006.01)

CPC (source: EP)
F04B 1/324 (2013.01)

Cited by
CN106194704A; US6647692B1

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DE FR GB IT SE

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