

Title (en)
Regulator system of a hydraulic variable capacity pump

Title (de)
Regelsystem einer Hydraulik-Verstellpumpe

Title (fr)
Système de réglage d'une pompe hydraulique à débit variable

Publication
EP 2682610 B1 20151209 (DE)

Application
EP 12174666 A 20120702

Priority
EP 12174666 A 20120702

Abstract (en)
[origin: EP2682610A1] The system (S) has a main stage (11) i.e. pressure-servo-controlled 3/2-way-control valve (12), fixed to a pressure line (8) and a return-flow line (19) for controlling control pressure acting at control cylinders (Z1, Z1'). A pilot valve is attached to the stage for controlling pressures, torque and/or volume. The pilot valve is connected to a pressure signal line (21) that is guided to pilot pressure control of the control valve at an inlet side. The pilot valve is attached to a low-pressure area and connected to the cylinders for quantity- and/or rotational torque control at an outlet side. The pilot valve is designed as a flow control pilot valve (24), a torque control pilot valve (25) and a pressure regulating pilot valve (34).

IPC 8 full level
F04B 49/00 (2006.01); **F15B 11/05** (2006.01)

CPC (source: EP)
F04B 49/002 (2013.01); **F15B 11/055** (2013.01); **F15B 2211/20553** (2013.01)

Cited by
DE102018200825B3; CN104179734A; DE102017202899B4; DE102022202279A1

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