Title (en)

CONTROL SYSTEM AND METHOD FOR CONTROLLING A POSITIVE DISPLACEMENT PUMP

Title (de

STEUERUNGSSYSTEM UND VERFAHREN ZUR STEUERUNG EINER POSITIVEN VERDRÄNGERPUMPE

Title (fr)

SYSTÈME ET PROCÉDÉ DE COMMANDE POUR COMMANDER UNE POMPE VOLUMÉTRIQUE

Publication

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Application

EP 15775819 A 20150917

Priority

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Abstract (en)

[origin: WO2016059490A1] A control system comprising: -a variable volume positive displacement rotary pump (2), in turn comprising: i) a stator (20) that is movable so as to determine a variation in the volume of the pump (2); ii) a first thrust chamber (21) for thrusting the stator (20) and designed to be filled with a fluid processed by the pump so as to determine a movement of the stator (20) and a variation in the volume of the pump (2); -a supply line (3) for supplying the fluid processed by the pump (2) to a load; -an element (4) that defines a localized loss in load, said element (4) being located along said supply line (3); -control means (5) for controlling the flow of the fluid supplying said first chamber (21), said control means (5) being able to assume at least a first and a second configuration; -a first branch (31, which, in the first configuration of the control means (5), allows for collecting the fluid to be directed into the first thrust chamber (21) from said supply line (3), downstream of said element (4); -a second branch (32), which, in the second configuration of the control means (5), allows for collecting the fluid to be directed into the first thrust chamber (21) from said supply line (3), upstream of said element (4); with respect to the first configuration, said second configuration enabling functioning of the load under more demanding conditions.

IPC 8 full level

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