

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

**EP 3207254 A1 20170823 (EN)**

Application

**EP 15775819 A 20150917**

Priority

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- IB 2015057147 W 20150917

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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