

Title (en)
PRESSURE CONTROL OF HYDRAULIC SYSTEM WITH ELECTRIC MOTOR

Title (de)
DRUCKSTEUERUNG EINES HYDRAULIKSYSTEMS MIT ELEKTROMOTOR

Title (fr)
RÉGLAGE DE LA PRESSION D'UN SYSTÈME HYDRAULIQUE COMPRENANT UN MOTEUR ÉLECTRIQUE

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Abstract (en)
The present invention relates to a hydraulic system (1), wherein the system comprises a hydraulic device (10), a hydraulic pump (20) in fluid connection with the pressure chamber of the hydraulic device, an electric motor (30) arranged to drive the hydraulic pump, and a motor drive unit (40) configured to control the operation of the electric motor. The hydraulic system further comprises a control unit (50) configured to provide a desired motor torque value to the motor drive unit. The motor drive unit is configured to control the operation of the electric motor to a desired torque based on the desired motor torque value. The present invention further relates to a method of controlling pressure in a hydraulic device (10) in a hydraulic system (1).

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Citation (applicant)
EP 1882534 A1 20080130 - AIDA ENG LTD [JP]

Citation (search report)
• [X] US 2014219822 A1 20140807 - MUELLER KARSTEN [DE], et al
• [X] US 2016084274 A1 20160324 - AFSHARI THOMAS [US]
• [X] US 5281774 A 19940125 - MASAKI TAKANOBU [JP]

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