

Title (en)

POWER- AND MOMENT-REGULATING SYSTEM FOR A PLURALITY OF HYDRAULIC PUMPS

Title (de)

LEISTUNGS- BZW. MOMENTENREGELEINRICHTUNG FÜR MEHRERE HYDROPUMPEN

Title (fr)

SYSTEME DE REGULATION DE PUISSANCE ET DE COUPLE POUR PLUSIEURS POMPES HYDRAULIQUES

Publication

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Application

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Abstract (en)

[origin: US6324841B1] A power- and moment-regulating system for at least two adjustable hydraulic pumps (10, 11). A hydraulic servo control apparatus (22, 23) continuously adjusts delivery as a function of pressure in a delivery pressure line (16, 17) and pressures in control lines (20, 21). Each servo control apparatus (22, 23) is provided with a moment valve (42, 43) having a valve piston (62) which moves in a valve sleeve (61) forming a valve seat and whose closure force is determined by a measuring spring (46, 47) which is connected to pump actuator (37, 38) and is preloaded depending upon the set delivery rate. The pressure in control line (20, 21) or pressure in control lines of the other hydraulic pump(s) (11, 10) act both on the valve piston (62) and on valve screen (61) of moment valve (42, 43) associated with the given hydraulic pump (10, 11).

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