

Title (en)
Electrohydraulic control system

Title (de)
Elektrohydraulische Steuereinrichtung

Title (fr)
Dispositif de commande électrohydraulique

Publication
EP 0546300 B1 19960410 (DE)

Application
EP 92118374 A 19921028

Priority
DE 4140409 A 19911207

Abstract (en)
[origin: EP0546300A1] An electrohydraulic control system (10) for the load-compensated control of a hydraulic motor (11) is proposed with which at least the function of lowering a single-acting working cylinder in a lifting mechanism can be controlled in a sensitive manner by means of a 2-way proportional choke valve (37) in a seat valve type of construction. The proportional choke valve (37) is activated by an electronic control system (17) in which the flow characteristics of the proportional choke valve (37), which vary as a function of pressure, are stored and which, as a function of the control signals from a first pressure transducer (16) which picks up the load pressure in the motor (11), forms an activating signal for the proportional choke valve (37) from an input desired value for the size of the volumetric flow, so that electronic load compensation can be carried out with the seat valve (37). The control system (10) is especially suitable as a lifting and lowering module in a control unit for the mast hydraulics in an electric stacker. <IMAGE>

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F15B 21/08

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F15B 21/08 (2006.01)

CPC (source: EP)
F15B 21/087 (2013.01)

Cited by
EP1635072A1; EP1635070A1; EP1369598A1; DE19514704A1; DE102019000212A1; US6065386A; EP1083338A3; EP0990802A3; DK179285B1; US2019145814A1; CN112855252A; NL1014476C2; EP0872446A3; EP2985473A1; CN106286438A; DE19610181A1; DE19610181B4; CN105035261A; CN112682383A; EP4321471A1; US7185939B2; US6981372B2; WO2005018972A1; WO9728373A1; WO2008000708A1; US6837045B2; EP3449227B1; WO0162532A1; WO2009024212A1

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