

Title (en)
Combined closed loop hydraulic circuit and hydraulic energy storage system

Title (de)
Kombinierter hydraulischer Kreislauf mit geschlossenem Regelkreis und hydraulisches Energiespeichersystem

Title (fr)
Circuit hydraulique combiné en boucle fermée et système de stockage d'énergie hydraulique

Publication
EP 2557239 A1 20130213 (EN)

Application
EP 12179392 A 20120806

Priority
GB 201113884 A 20110811

Abstract (en)
This disclosure is directed towards a hydraulic control system (10, 47, 54) comprising a combined closed loop hydraulic circuit (14) for controlling two or more hydraulic actuators (21, 22) and a hydraulic energy storage system comprising one or more accumulators (19, 20). The hydraulic control system (10, 47, 54) further comprises a power unit (11). The closed loop hydraulic circuit (14) comprises a hydraulic machine (16) operably connected to the power unit (11), first and second accumulators (19, 20) for storing hydraulic fluid, first and second hydraulic actuators (21, 22), a first valve (17) for selectively directing hydraulic fluid between the hydraulic machine (16) and either the first accumulator (19) or the first hydraulic actuator (21) and a second valve (18) for selectively directing hydraulic fluid between the hydraulic machine (16) and either the second accumulator (20) or the second hydraulic actuator (22). The first hydraulic actuator (21) is fluidly connected to the second hydraulic actuator (22) by one or more conduits (29).

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Citation (applicant)
US 6520731 B2 20030218 - MACLEOD IAN J C [US]

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