

Title (en)
A hydraulic system

Title (de)
Hydraulisches System

Title (fr)
Système hydraulique

Publication
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Application
EP 13162367 A 20130404

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Abstract (en)
A method of operating a hydraulic system including providing a hydraulic pump (32,232,332) having a pump outlet, a main orifice (43,243A,243B) having a main orifice inlet in fluid communication with the pump outlet and a main orifice outlet for supplying pressurised fluid to a service, a flow orifice (44,244,344) having a flow orifice inlet for sensing a pressure representative of a pressure at the pump outlet and a flow orifice outlet, an amplification orifice (45,245,345) having an amplification orifice inlet in fluid communication with the flow orifice outlet and an amplification orifice outlet for sensing a pressure representative of a pressure at a service, means (63,263,363) for generating an output signal representative of a fluid pressure between the flow orifice outlet and the amplification orifice inlet, and a pump controller (64,270,395) for controlling the hydraulic pump in response to the output signal, the flow orifice defining a flow orifice cross section area and the amplification orifice defining an amplification orifice cross section area, the flow orifice cross section area and the amplification orifice cross section area defining a ratio, in which the main orifice is variable and the ratio is variable, the method further comprising the steps of operating the system in a first mode so as to define a first mode ratio and operating the system in a second mode so as to define a second mode ratio, so that the ratio is controlled differently in the first mode and the second mode.

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