

Title (en)
CIRCUIT ARRANGEMENT

Title (de)
SCHALTUNGSANORDNUNG

Title (fr)
ENSEMBLE CIRCUIT

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Application
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Abstract (en)
[origin: WO2005075833A1] The invention relates to a circuit arrangement comprising a load sensing system (LS) wherein individual loads (10,14) are arranged in series, forming a series section, and in parallel, forming a parallel section, in a hydraulic supply circuit (12) comprising at least one supply pump (P) and a runback (16) for fluid, the load sensing system (LS) determining the highest load pressure in both the series section and parallel section. The loads of the parallel section can be actuated independently from the pressure level of the loads of the series section due to the fact that the respectively highest load pressure is transferred as a control pressure to a valve unit (18) in such a way that, as long as the load pressure of the parallel section is higher than the load pressure of the series section, the valve unit restricts the runback (16) for fluid so much that the pressure of the supply pump (P) matches or exceeds the pressure required in the parallel section. In this way, a sufficient fluid pressure for the respective load in the parallel section is ensured independently of the number of loads in the series section.

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Citation (search report)
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