

Title (en)

HYDRAULIC APPARATUS WITH MULTIPLE FLOWS AND OPERATING METHOD THEREOF

Title (de)

HYDRAULISCHE VORRICHTUNG MIT MEHRFACHEN STRÖMEN UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

APPAREIL HYDRAULIQUE À FLUX MULTIPLES ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 4257829 A1 20231011 (EN)

Application

EP 22166833 A 20220405

Priority

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Abstract (en)

An apparatus comprises a hydraulic machine driven by a prime mover and a plurality of hydraulic circuit portions, each having one or more hydraulic actuators. Pump modules of the hydraulic machine are primarily connected to one of the hydraulic circuit portions at a time and may be reallocated from one hydraulic circuit portion to another. A variable flow regulator allows the flow from or to a pump module to or from a hydraulic circuit portion to be split or combined, or allows a flow between manifolds which are connected to the hydraulic circuit portions. In each case the flow rate is regulated. The variable flow regulator may comprise a proportional flow valve which allows a controlled throttled flow therethrough. The apparatus is useful when the demand for fluid flow is close to or exceeds the capacity of the hydraulic machine as fluid flows may be varied continuously in a controlled fashion.

IPC 8 full level

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Citation (applicant)

WO 2021044148 A1 20210311 - ARTEMIS INTELLIGENT POWER LTD [GB]

Citation (search report)

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- [AD] WO 2021044148 A1 20210311 - ARTEMIS INTELLIGENT POWER LTD [GB]
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Designated contracting state (EPC)

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