

Title (en)
HYDRAULIC DISTRIBUTOR WITH COMPENSATOR DEVICE FOR DIRECTIONAL VALVES AND HYDRAULIC CIRCUIT COMPRISING THE SAME

Title (de)
HYDRAULISCHER VERTEILER MIT AUSGLEICHSVORRICHTUNG FÜR WEGEVENTILE UND HYDRAULIKKREISLAUF DIESEN UMFASSEND

Title (fr)
DISTRIBUTEUR HYDRAULIQUE AVEC UN DISPOSITIF COMPENSATEUR POUR VALVES DIRECTIONELLES ET CIRCUIT HYDRAULIQUE COMPRENANT CELUI-CI

Publication
EP 4095393 A1 20221130 (EN)

Application
EP 22175917 A 20220527

Priority
IT 202100014123 A 20210528

Abstract (en)
A hydraulic distributor comprises at least one main spool configured to define a delivery segment, and a discharge segment, a supply segment and a pressure compensator configured in such a way that acting on one of a first side thereof is a local pressure and acting on a second side is a maximum Load Sensing pressure either characteristic of the working pressure of the hydraulic user, in the case single hydraulic user is present, or, in the case of a plurality of hydraulic users are present, each defining a respective characteristic pressure, characteristic of the maximum pressure among the characteristic pressures of the hydraulic users. The pressure compensator comprises at least three ways, of which a third way is configured in such a way as to connect the discharge segment with an energy recovery stretch connectable to an energy recovery device. The pressure compensator comprises a position sensor configured to detect the position of said pressure compensator and transmit it to a control unit operatively connected to the energy recovery device.

IPC 8 full level
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CPC (source: EP)
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Citation (applicant)
DE 3930553 A1 19910314 - BOSCH GMBH ROBERT [DE]

Citation (search report)

- [YA] IT 201700042145 A1 20181014 - WALVOIL SPA
- [YA] EP 3822492 A1 20210519 - WALVOIL SPA [IT]
- [YA] WO 2014012608 A1 20140123 - HYDAC SYSTEM GMBH [DE]
- [YA] EP 2028376 A2 20090225 - BOSCH GMBH ROBERT [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

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