

Title (en)
DEVICE FOR ADJUSTING SIMULTANEOUSLY THE DISPLACEMENT OF A FIRST AND A SECOND HYDROSTATIC UNIT

Title (de)
VORRICHTUNG ZUM VARIIEREN DER HUBVOLUMINA EINER ERSTEN HYDRAULIKMASCHINE UND EINER ZWEITEN HYDRAULIKMASCHINE

Title (fr)
DISPOSITIF POUR RÉGLER SIMULTANÉMENT LA CAPACITÉ DE DEUX MACHINES HYDROSTATIQUES

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Application
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Abstract (en)
[origin: WO2011042266A1] The invention relates to a device (1) for varying the swept volumes of a first hydraulic machine (2) and a second hydraulic machine (3). At least one piston (7) of a piston-cylinder system (4) is operatively connected to axes (5, 6) of the hydraulic machine (2, 3). Depending on a power request from the driver, pressures that correspond to a hydraulic pressure present in the region of the hydraulic machines (2, 3) and act in a first actuating direction of the axes (5, 6) can be applied to the piston (7) in the region of an effective surface (7A) delimiting a piston chamber (12A) by means of a position control valve unit (10) and a high pressure control valve unit (11) of a valve system (9). The pressure in the region of the hydraulic machines (2, 3) can be set in a controlled manner by means of the position control valve unit (10) and can be limited in a controlled manner by means of the high pressure control valve unit (11). By means of the valve system (9), pressures that correspond to hydraulic pressure present in the region of the hydraulic machines (2, 3) and that act in a second actuating direction of the axes of the hydraulic machines (2,3) can be applied to the piston (7) in the region of a further effective surface (7B) delimiting a further piston chamber (13A), wherein the mode of action of the position control valve unit (10) can be reversed in the region of the high pressure control valve unit (11).

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