

Title (en)
ELECTROHYDRAULIC CONTROL CIRCUIT FOR A LARGE MANIPULATOR

Title (de)
ELEKTROHYDRAULISCHER STEUERKREIS FÜR EINEN GROßMANIPULATOR

Title (fr)
CIRCUIT DE COMMANDE ÉLECTROHYDRAULIQUE POUR MANIPULATEUR DE GRANDE TAILLE

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Application
EP 17720371 A 20170410

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• EP 2017058510 W 20170410

Abstract (en)
[origin: WO2017178413A1] The invention relates to an electrohydraulic control circuit (1) for actuating a hydraulically actuated drive assembly (2, 2a, 2b, 2c, 2d), by means of which the orientation of a mast segment (3, 3a, 3b, 3c, 3d) of a manipulator (4), in particular of a large manipulator for truck-mounted concrete pumps, can be adjusted, having an electrically actuated proportional valve (28) which is connected to hydraulic operating lines (29, 30) of the drive assembly (2, 2a, 2b, 2c, 2d) in order to actuate it during normal operation, wherein the proportional valve (28) is connected to a pressure supply line (24) and to a return line (25), wherein, for emergency operation, an emergency valve (36) is connected to the hydraulic operating lines (29, 30) of the drive assembly (2, 2a, 2b, 2c, 2d) in order to actuate it during emergency operation. It is an object of the invention to specify a control circuit and a manipulator which makes reliable emergency operation possible in the event of the failure of the regular control circuit components. To this end, the invention proposes that, in emergency operation, the emergency valve (36) is actuated via an emergency operating unit (56). As an alternative or in addition to this, the emergency valve (36) can be connected to a further pressure supply line (26) which is connected to an emergency pressure supply unit (8), and as an alternative or in addition, furthermore, the emergency valve (36) can be connected to a further return line. Moreover, the invention relates to a manipulator (4), in particular a large manipulator for truck-mounted concrete pumps.

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Citation (search report)
See references of WO 2017178413A1

Cited by
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