

Title (en)

CONTROL AIR SYSTEM AND METHOD FOR CONTROLLING A CONTROL AIR SYSTEM

Title (de)

STEUERLUFTSYSTEM UND VERFAHREN ZUR STEUERUNG EINES STEUERLUFTSYSTEMS

Title (fr)

SYSTÈME D'AIR DE COMMANDE ET PROCÉDÉ PERMETTANT DE COMMANDER UN SYSTÈME D'AIR DE COMMANDE

Publication

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Application

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Abstract (en)

[origin: WO2021121947A1] The invention relates to a control air system (1) for providing pressurised air with an adjustable air pressure in an air chamber, which is preferably suitable for controlling the braking torque of a hydrodynamic retarder. The main structure of the control air system comprises: a closed-loop control connection (A1), via which the air chamber can be filled with pressurised air in order to provide a control air pressure; a pressurised air supply line (7a, 7b, 7c), in which an electrically actuatable inlet valve (5a, 5b) is connected, in order to supply pressurised air to the air chamber; a venting line (10a), in which an electrically actuatable venting valve (6) is connected, in order to discharge pressurised air out of the air chamber; a sensor (8) for at least indirectly detecting or calculating the pressure between the inlet valve and the outlet valve; as well as a control device (12), which is designed for the open-loop or closed-loop control of the control air pressure in the air chamber (11). According to the invention, a switch device (3, 4) is connected upstream of the inlet valve in the pressurised air supply line in the flow direction of the pressurised air, said switch device interrupting the pressurised air supply to a pressurised air connection in the non-actuated state. The invention also relates to a method for checking the functional state of the control air system.

IPC 8 full level

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