

Title (en)

ELECTROMECHANICAL MOTOR VEHICLE STEERING WITH A REDUNDANTLY DESIGNED CONTROL DEVICE

Title (de)

ELEKTROMECHANISCHE KRAFTFAHRZEUGLENKUNG MIT EINEM REDUNDANT AUSGELEGTEN STEUERGERÄT

Title (fr)

DIRECTION DE VÉHICULE AUTOMOBILE ÉLECTROMÉCANIQUE COMPRENANT UN APPAREIL DE COMMANDE À CONFIGURATION REDONDANTE

Publication

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Application

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Abstract (en)

[origin: WO2019174954A1] The invention relates to a redundant control device (13) for an electromechanical steering system (1) of a motor vehicle, having a primary control path (130) and a secondary control path (140), wherein the primary control path (130) has a primary computer unit (133), a primary driver stage (135) and a primary power module (136), and the secondary control path (140) has a secondary computer unit (143), a secondary driver stage (145) and a secondary power module (146), wherein the power modules (136, 146) are provided to activate two physically separate electric motors (91, 92) or a single electric motor (9) having two winding groups, and wherein a torque can be exerted on the same shaft by the two physically separate electric motors (91, 92) or the single electric motor (9) having two winding groups and wherein the computer units (133, 143) communicate between themselves directly between the two control paths (130, 140) via a signal line (150).

IPC 8 full level

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