

Title (en)
EVALUATION ELECTRONICS AND METHOD FOR ESTIMATING A MASTER BRAKE CYLINDER PRESSURE IN A VEHICLE BRAKE SYSTEM
EQUIPPED WITH AN ELECTROMECHANICAL BRAKE BOOSTER

Title (de)
AUSWERTEELEKTRONIK UND VERFAHREN ZUM SCHÄTZEN EINES HAUPTBREMSZYLINDERDRUCKS IN EINEM MIT EINEM
ELEKTROMECHANISCHEN BREMSKRAFTVERSTÄRKER AUSGESTATTETEN BREMSYSTEM EINES FAHRZEUGS

Title (fr)
ÉLECTRONIQUE D'INTERPRÉTATION ET PROCÉDÉ POUR ESTIMER UNE PRESSION DE MAÎTRE-CYLINDRE DE FREIN DANS UN
SYSTÈME DE FREINAGE D'UN VÉHICULE ÉQUIPÉ D'UN SERVOFREIN ÉLECTROMÉCANIQUE

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Application
EP 17826149 A 20171130

Priority
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• EP 2017080980 W 20171130

Abstract (en)
[origin: WO2018121953A1] The invention relates to evaluation electronics (50) for a vehicle brake system which is equipped with an electromechanical brake booster (50), and to a method for estimating a master brake cylinder pressure in a vehicle brake system which is equipped with an electromechanical brake booster (52), comprising the steps: estimating a first output value of the master brake cylinder pressure taking into account at least a first current strength ($I(t_1)$) of a motor current of a motor of the electromechanical brake booster (52) at the first time and taking into account a first rotational angle ($\varphi(t_1)$) of a rotor of the at the first time, defining a correction value (ΔC) as a difference between the first output value and a measured value ($x_{\text{measured}}(t_1)$) of the master brake cylinder pressure, estimating a second output value of the master brake cylinder pressure taking into account at least a second current strength ($I(t_1 + \Delta t)$) of the motor current of the motor at the second time and taking into account a second rotational angle ($\varphi(t_1 + \Delta t)$) of the rotor at the second time, and defining an estimated value ($p(t_1 + \Delta t)$) of the master brake cylinder pressure in the master brake cylinder at the second time taking into account the second output value and the correction value (ΔC).

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Citation (search report)
See references of WO 2018121953A1

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