Title (en)

BRAKE ACTUATING UNIT FOR ACTUATING AN AUTOMOTIVE BRAKING SYSTEM

Title (de)

BREMSBET[TIGUNGSEINHEIT ZUR BET[TIGUNG EINER KRAFTFAHRZEUGBREMSANLAGE

Title (fr)

UNITE DE FREINAGE POUR FAIRE FONCTIONNER DES FREINS D'UNE INSTALLATION DE FREINAGE D'UN VEHICULE

Publication

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Application

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Abstract (en)

[origin: WO2006084864A1] The invention relates to a brake actuating unit for actuating an automotive braking system of the brake-by-wire type. Said unit comprises a) a brake booster, which can be actuated according to the driver's wishes both by means of a brake pedal as well as by means of an electronic control unit, whereby means are provided for decoupling a force-transmitting connection between the brake pedal and the brake booster in the brake-by-wire operating mode; b) a master cylinder connected downstream from the brake booster; c) means for detecting the driver's wish to slow down, and; d) a pedal travel simulator, which interacts with the brake pedal and with which, in the brake-by-wire operating mode, a restoring force acting upon the brake pedal can be simulated independent of an actuation of the brake booster, and which, in the brake-by-wire operating mode, can be switched on when decoupling the force-transmitting connection between the brake pedal and the brake booster and can be switched off when the brake-by-wire operating mode is not active; whereby e) a mechanical connection between the brake booster and the brake pedal is provided and allows a transmission of the tensile force supplied by the brake booster to the brake pedal, and which is configured by two elements of an actuating rod actuating the control valve of the brake booster, which are capable of making a relative movement in relation to each other, whereby the first element is connected to the valve piston of the control valve and the second element is connected to the brake pedal in a force-transmitting manner. The aim of the invention is to eliminate the risk of injuries involved during inspection of a simulator shut-down and simultaneous maintenance work on the braking system. For this purpose, an elastic element (11) is interposed between the two elements (8, 9) and is compressed by the electronic control unit when the brake booster (1) is actuated independent of the driver's wish.

IPC 8 full level

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CPC (source: EP KR)

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