

Title (en)
DEVICE FOR FORCE SIMULATION AT AN ACTUATION ELEMENT OF A VEHICLE, PREFERABLY A PEDAL SIMULATOR, AND APPARATUS FOR ACTUATING AN ELECTRICAL CLUTCH SYSTEM

Title (de)
VORRICHTUNG ZUR KRAFTSIMULATION AN EINEM BETÄTIGUNGSELEMENT EINES FAHRZEUGES, VORZUGSWEISE EIN PEDALSIMULATOR, UND EINRICHTUNG ZUR BETÄTIGUNG EINES ELEKTRISCHEN KUPPLUNGSSYSTEMS

Title (fr)
DISPOSITIF DESTINÉ À SIMULER L'APPLICATION D'UNE FORCE SUR UN ÉLÉMENT D'ACTIONNEMENT D'UN VÉHICULE, DE PRÉFÉRENCE SIMULATEUR DE PÉDALE, ET DISPOSITIF PERMETTANT D'ACTIONNER UN SYSTÈME D'EMBRAYAGE ÉLECTRIQUE

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Abstract (en)
[origin: WO2015165450A1] The invention relates to a device for force simulation at an actuation element of a vehicle, preferably a pedal simulator, which gives haptic feedback by means of specified force/displacement behavior, comprising a piston/cylinder unit (5, 12), wherein the piston (5) is connected to the actuation element (3) by means of a piston rod (4), which actuation element axially moves the piston within the cylinder. In the case of a device for which the vehicle driver haptically feels the same force as in the case of a hydraulic actuation system, the cylinder is filled with a medium, wherein the piston has at least one through-opening (17, 18) and/or at least one groove (15, 16) that extends on an inner wall of the cylinder, through which at least one through-opening and/or at least one groove the medium flows from a first working chamber (19), which lies in front of the piston in a direction of motion of the piston, into a second working chamber (20), which is arranged behind the piston, when the actuation element is actuated.

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