

Title (en)
BRAKE SYSTEM FOR MOTOR VEHICLES

Title (de)
BREMSANLAGE FÜR KRAFTFAHRZEUGE

Title (fr)
SYSTÈME DE FREINAGE POUR VÉHICULE À MOTEUR

Publication
EP 3036135 A1 20160629 (DE)

Application
EP 14750212 A 20140808

Priority
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• EP 2014067048 W 20140808

Abstract (en)
[origin: WO2015024795A1] Brake system for motor vehicles, which brake system can be driven both by the vehicle driver and also independently of the vehicle driver in a "brake-by-wire" mode, having a main brake cylinder (1) which has at least a first and a second main brake cylinder piston (2, 3), which pistons delimit a first and a second pressure space (4; 5) and to which pistons in each case one braking circuit (I; II) with wheel brakes (6a, 6b; 6c, 6d) is connected, wherein the first main brake cylinder piston (2) is coupled to a brake pedal (21), having a pressure medium storage container (9), a hydraulically operable simulation device (11) which provides the vehicle driver with a pleasant brake pedal sensation in the "brake-by-wire" mode, a simulator valve (16) for turning on and turning off the effect of the simulation device (11), an electrically controllable pressure-providing device (18), and a pressure control valve arrangement which is hydraulically connected to the main brake cylinder (1), the pressure-providing device (18) and the wheel brakes (6a-6d) and has a first wheel valve (7a-7d), which can be electrically driven and is open when no current is applied, for each wheel brake, wherein the first main brake cylinder piston (2) is in the form of a differential piston, the annular surface (23) of said differential piston delimiting a hydraulic chamber (22), wherein the hydraulic chamber (22) is hydraulically connected to the simulator chamber (12).

IPC 8 full level
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Citation (search report)
See references of WO 2015024795A1

Citation (examination)
WO 2009121645 A1 20091008 - BOSCH GMBH ROBERT [DE], et al

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