

Title (en)  
MASTER CYLINDER WITH IMPROVED EMERGENCY BRAKING FUNCTION

Title (de)  
HAUPTZYLINDER MIT VERBESSERTER NOTBREMSFUNKTION

Title (fr)  
MAITRE-CYLINDRE A FONCTION DE FREINAGE DE SECOURS AMELIOREE

Publication  
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Application  
**EP 99920727 A 19990421**

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Abstract (en)  
[origin: DE19819228A1] The invention relates to a master-cylinder (10) for a hydraulic brake system, comprising a housing (18) having a bore (20) in which a pressure piston (22) is guided which is mechanically joined to a rod-shaped actuating member (26) for the transmission of an input force onto the pressure piston (22). On its one side the pressure piston (22) in the bore (20) defines a pressure chamber (28) and on its other, opposite side which faces the actuating member (26) it defines a compensating chamber (30). The pressure piston (22) has a hydraulically active surface A and the actuating member (26) a hydraulically active surface  $B < A$ . To raise the pressure multiplication of the master cylinder (10) when additional brake pressure is required, a device (50) connects the pressure chamber (28) with the compensating chamber (30) such that a fluid is able to circulate when a predetermined pressure increase gradient in the pressure chamber (28) is exceeded, so that the pressure multiplication of the master cylinder (10) is increased by a factor  $A/B$ .

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