Title (en)

SERVO BRAKE BOOSTER WITH TWO DIFFERENTIATED FIXED AND VARIABLE JUMPS

Title (de)

BREMSKRAFTVERSTÄRKER MIT ZWEI UNTERSCHIEDLICHEN FESTEN UND VERÄNDERLICHEN SCHWELLENWERTEN

Title (fr)

SERVOMOTEUR A DEUX SAUTS DIFFERENCIES FIXE ET VARIABLE

Publication

EP 1397279 A1 20040317 (FR)

Application

EP 02743327 A 20020523

Priority

- FR 0201732 W 20020523
- FR 0107018 A 20010525

Abstract (en)

[origin: WO02094628A1] The invention concerns a pneumatic servo brake booster (10) comprising a mobile piston (22) stressing an actuating rod (34) of a master cylinder (28) in response to the actuation of a plunger (56) whereof one front end, passing through the piston (22) and forming a first probe (62) can, in the extreme position of the plunger (56), penetrate a first reaction disc (44) interposed between the piston (22) and the actuating rod (34) to transmit to the plunger (56) the reaction force of the master cylinder (28). The invention is characterised in that it comprises a second probe (68) which can, when the control rod (46) is actuated at a speed higher that a predetermined speed be pushed by the plunger (56) and locked by a one-way clutch device (70) along a variable axial position relative to the piston (22), then driven by the piston to push the second probe (68) into the disc (44) so that the first probe (52) applies a braking force more rapidly.

IPC 1-7

B60T 8/32; B60T 13/575; B60T 13/569

IPC 8 full level

B60T 13/573 (2006.01); **B60T 1/00** (2006.01); **B60T 8/32** (2006.01); **B60T 13/569** (2006.01); **B60T 13/575** (2006.01)

CPC (source: EP US)

B60T 8/3275 (2013.01 - EP US); **B60T 13/569** (2013.01 - EP US); **B60T 13/575** (2013.01 - EP US)

Citation (search report)

See references of WO 02094628A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02094628 A1 20021128; EP 1397279 A1 20040317; FR 2825058 A1 20021129; FR 2825058 B1 20030919; JP 2004525034 A 20040819; RU 2003136082 A 20050427; US 2004189088 A1 20040930; US 6935705 B2 20050830

DOCDB simple family (application)

FR 0201732 W 20020523; EP 02743327 A 20020523; FR 0107018 A 20010525; JP 2002591319 A 20020523; RU 2003136082 A 20020523; US 47858004 A 20040419