

Title (en)
COMPRESSED AIR BRAKE BOOSTER WITH ENHANCED POWER-ASSIST

Title (de)
DRUCKLUFTBREMSKRAFTVERSTÄRKER MIT VERBESSERTER HILFSKRAFT

Title (fr)
SERVOMOTEUR PNEUMATIQUE D'ASSISTANCE DE FREINAGE AVEC ASSISTANCE RENFORCEE

Publication
EP 1347909 A1 20031001 (FR)

Application
EP 01998467 A 20011126

Priority
• FR 0103736 W 20011126
• FR 0015466 A 20001128

Abstract (en)
[origin: WO0244001A1] To produce complementary compressed power-assist which only occurs at high braking levels, the invention provides in a brake booster unit a system to produce a power-assist effort pick-up (28, 33) additionally to the power-assist effort (25) normally applied by a reaction disc (24). The effort pick-up is produced preferably by a slide (26) containing an outer case (31) and a plunger (30) rigidly fixed to the first reaction device. The outer case is supported on a piston (23) of the air compressed power assist. The plunger is expelled from the envelope by a spring (34) whereof the displacement is countered by a pin (35) so long as the force applied by the driver is less than an intermediate force. When it is exceeded, the reaction of a braking hydraulic circuit downstream compresses the spring and produces the additional air compressed power-assist.

IPC 1-7
B60T 13/575

IPC 8 full level
B60T 13/573 (2006.01); **B60T 1/00** (2006.01); **B60T 13/56** (2006.01); **B60T 13/575** (2006.01)

CPC (source: EP KR US)
B60T 13/575 (2013.01 - EP KR US)

Citation (search report)
See references of WO 0244001A1

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 0244001 A1 20020606; AU 1614302 A 20020611; BR 0115884 A 20031125; CN 1256254 C 20060517; CN 1484593 A 20040324; EP 1347909 A1 20031001; FR 2817223 A1 20020531; FR 2817223 B1 20030110; JP 2004514594 A 20040520; KR 20030055325 A 20030702; RU 2003119446 A 20050110; RU 2274568 C2 20060420; US 2004159516 A1 20040819; US 6901843 B2 20050607

DOCDB simple family (application)
FR 0103736 W 20011126; AU 1614302 A 20011126; BR 0115884 A 20011126; CN 01821636 A 20011126; EP 01998467 A 20011126; FR 0015466 A 20001128; JP 2002545955 A 20011126; KR 20037007162 A 20030528; RU 2003119446 A 20011126; US 43363103 A 20030603