

Title (en)
AIR PLUNGER

Title (de)
KOLBEN FÜR EIN LUFTFEDER

Title (fr)
PISTON PNEUMATIQUE

Publication
EP 1112190 A1 20010704 (EN)

Application
EP 99969379 A 19990901

Priority
• SE 9901502 W 19990901
• SE 9802949 A 19980902

Abstract (en)
[origin: WO0016999A1] An air plunger (11) to be used in an air cushioning device in a vehicle has the shape of a straight, circular cylinder, which is closed at one end by means of a first end wall (12) and which at the other end has a second end wall (13) with a centre opening (14). The air plunger (11) has an inner supporting element (16) with a first portion (17), which has the shape of a hollow, truncated, straight, circular cone. The smaller end of the truncated cone abuts against the first end wall (12), and the outer diameter of the larger cone end is essentially equal to the inner diameter of the cylinder. The inner supporting element (16) is connected to the cylinder to provide transfer of forces from the jacket of the cylinder to a centre area, defined by the smaller cone surface, of the first end wall (12).

IPC 1-7
B60G 11/27; **F16F 9/05**

IPC 8 full level
B60G 11/27 (2006.01); **F16F 9/05** (2006.01)

IPC 8 main group level
B60G (2006.01)

CPC (source: EP SE)
B60G 11/27 (2013.01 - SE); **F16F 9/05** (2013.01 - SE); **F16F 9/057** (2013.01 - EP); **B60G 2206/424** (2013.01 - EP)

Citation (search report)
See references of WO 0016999A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT

DOCDB simple family (publication)
WO 0016999 A1 20000330; AU 6014399 A 20000410; EP 1112190 A1 20010704; SE 9802949 D0 19980902; SE 9802949 L 20000303

DOCDB simple family (application)
SE 9901502 W 19990901; AU 6014399 A 19990901; EP 99969379 A 19990901; SE 9802949 A 19980902