

Title (en)

VENTILATION CAP ON A SOLENOID VALVE IN COMPRESSED-AIR INSTALLATIONS, FOR EXAMPLE FOR VEHICLES

Title (de)

ENTLÜFTUNGSKAPPE AN EINEM MAGNETVENTIL IN DRUCKLUFTANLAGEN, BEISPIELSWEISE FÜR FAHRZEUGE

Title (fr)

CAPUCHON DE PURGE D'AIR SUR UNE ÉLECTROVANNE DANS DES SYSTÈMES D'AIR COMPRIMÉ, PAR EXEMPLE POUR DES VÉHICULES

Publication

EP 3914842 A1 20211201 (DE)

Application

EP 20700799 A 20200114

Priority

- DE 102019101556 A 20190123
- EP 2020050747 W 20200114

Abstract (en)

[origin: WO2020151990A1] The invention relates to a ventilation cap (11.1, 11.2) on a solenoid valve (1) in compressed-air installations, for example for vehicles, having a sealing element (12) which is arranged on a carrier element (18), wherein the carrier element (18) is arranged at an axial end (10a) of an outlet pipe (10) of the solenoid valve (1), and the sealing element (12) is arranged in the region of the axial end (10a) of the outlet pipe (10). For quiet ventilation and for protection against an ingress of water, it is provided that the sealing element (12) is formed as a cap which engages radially and axially over the carrier element (18) and which has a coaxially extending circular flange (13), that the flange has, at the inner side (14) thereof adjacent to the free axial end thereof, at least one receptacle (15) for at least one radially outwardly protruding snap-action contour (19) of complementary form on the carrier element (18), that the carrier element has a coaxially arranged hollow cylindrical projection (20), that said projection (20) is fastenable to the axial end (10a) of the outlet pipe (10), and that the carrier element (18) has, centrally, a coaxial ventilation path (21) which is connected in terms of flow to at least one outlet opening (26) via a labyrinthine sealing structure (25).

IPC 8 full level

F16K 31/06 (2006.01); **B60T 17/00** (2006.01); **F01N 1/08** (2006.01); **F15B 21/00** (2006.01); **F16K 47/08** (2006.01)

CPC (source: EP US)

B60T 17/008 (2013.01 - EP US); **F16K 31/0627** (2013.01 - EP US); **F16K 47/08** (2013.01 - EP US)

Citation (search report)

See references of WO 2020151990A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102019101556 A1 20200723; CN 113227624 A 20210806; EP 3914842 A1 20211201; US 2022073047 A1 20220310; WO 2020151990 A1 20200730

DOCDB simple family (application)

DE 102019101556 A 20190123; CN 202080007304 A 20200114; EP 2020050747 W 20200114; EP 20700799 A 20200114; US 202017424508 A 20200114