

Title (en)

PNEUMATIC SUSPENSION AND ROLL CONTROL SYSTEM

Title (de)

PNEUMATISCHE FEDERUNG UND ROLLSTEUERUNGSSYSTEM

Title (fr)

SUSPENSION PNEUMATIQUE ET SYSTÈME DE COMMANDE DE ROULIS

Publication

**EP 4093623 A1 20221130 (EN)**

Application

**EP 21709148 A 20210120**

Priority

- GB 202000782 A 20200120
- PL 2021050001 W 20210120

Abstract (en)

[origin: GB2591142A] A suspension having a standard coilover strut 205 connected in series to an active pneumatic actuator, which may be a double-acting pneumatic cylinder 212 or an air bellow (Fig 8a, 812). The strut 205 may connect in series to the actuator via a centrally pivoted rocker arm 208 such that if the actuator extends in length, the strut 205 is compressed, reducing the ride-height and/or compensating roll of the vehicle body. The cylinder 212 may comprise a piston (Fig 4, 403) and two valve-regulated inlets (Fig 4, 406, 408) on either side of the piston 403. In case of the air bellow 812, there may be a single valve-regulated inlet. The valves may be electrically or pneumatically controlled by the ECU according to sensors for detecting ride-height, steering wheel angle, yaw rate or roll angle. The strut 205 may be of standard design, comprising a coil spring and a damper.

IPC 8 full level

**B60G 17/027** (2006.01)

CPC (source: EP GB)

**B60G 17/0155** (2013.01 - GB); **B60G 17/0162** (2013.01 - GB); **B60G 17/0272** (2013.01 - EP GB); **B60G 2204/421** (2013.01 - EP); **B60G 2500/30** (2013.01 - EP); **B60G 2800/914** (2013.01 - EP)

Citation (search report)

See references of WO 2021150129A1

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BA ME

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