

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)

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Citation (search report)

See references of WO 2021150129A1

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