

Title (en)

THRUST PIECE UNIT FOR RACK-STEERING GEARS

Title (de)

DRUCKSTÜCKEINHEIT FÜR ZAHNSTANGEN-LENKGETRIEBE

Title (fr)

UNITE ELEMENT DE PRESSION DE MECANISMES DE DIRECTION A CREMAILLERE

Publication

**EP 1478559 A1 20041124 (DE)**

Application

**EP 03704692 A 20030226**

Priority

- DE 10208948 A 20020228
- EP 0301949 W 20030226

Abstract (en)

[origin: WO03072416A1] The invention relates to a thrust piece unit (1) for rack-steering gears, which is integrated into a housing bore of the steering gear housing (2) of motor vehicles. The aim of the invention is to maintain the pinion and the steering rack in a state of constant engagement. Said unit comprises a cylinder part (3), a piston part (8) and two corresponding chambers (4 and 9) filled with a hydraulic medium. Said chambers are connected to each other by means of a feed valve (15) and a throttle point (14). An overload cut-out device (12, 13) is also integrated into the thrust piece unit (1).

IPC 1-7

**B62D 3/12**

IPC 8 full level

**B62D 3/12** (2006.01); **F16H 55/28** (2006.01)

CPC (source: EP US)

**B62D 3/123** (2013.01 - EP US); **F16H 55/283** (2013.01 - EP US); **Y10T 74/18088** (2015.01 - EP US); **Y10T 74/1967** (2015.01 - EP US)

Citation (search report)

See references of WO 03072416A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 03072416 A1 20030904**; AU 2003206957 A1 20030909; DE 10208948 A1 20030918; EP 1478559 A1 20041124; JP 2005518978 A 20050630; US 2005039554 A1 20050224; US 7197956 B2 20070403

DOCDB simple family (application)

**EP 0301949 W 20030226**; AU 2003206957 A 20030226; DE 10208948 A 20020228; EP 03704692 A 20030226; JP 2003571137 A 20030226; US 91431004 A 20040809