

Title (en)

HYDRAULIC SHOCK ABSORBER EQUIPPED WITH A LEADING STOP HAVING AN ADJUSTABLE BRAKING RULE

Title (de)

HYDRAULISCHER STOSSDÄMPFER MIT EINEM ANSCHLAG MIT VERSTELLBARER BREMSREGELUNG

Title (fr)

AMORTISSEUR HYDRAULIQUE EQUIPE D'UNE BUTEE D'ATTAQUE PRÉSENTANT UNE LOI DE FREINAGE RÉGLABLE

Publication

**EP 3440375 A1 20190213 (FR)**

Application

**EP 17713740 A 20170309**

Priority

- FR 1653132 A 20160408
- FR 2017050520 W 20170309

Abstract (en)

[origin: WO2017174887A1] The invention relates to a hydraulic shock absorber equipped with a leading stop, comprising a piston (4) sliding inside a body (2) for the purpose of shock absorption. The piston (4) moves a sleeve (10) which is disposed towards the front and provided with axially-distributed holes (18), and, at the shock absorber end-of-stroke, the sleeve fits around a stationary chamber (12) that gradually closes the holes (18), thereby reducing the cross-section through which fluid can flow into the sleeve (10). The chamber (12) comprises additional holes (40a, 40b) and said chamber (12) receives a moving gate (42) therein, which, depending on its position, either closes or opens the additional holes (40a, 40b).

IPC 8 full level

**F16F 9/346** (2006.01); **F16F 9/49** (2006.01)

CPC (source: EP US)

**B60G 13/08** (2013.01 - US); **B60G 17/08** (2013.01 - US); **F16F 9/19** (2013.01 - US); **F16F 9/346** (2013.01 - EP US); **F16F 9/49** (2013.01 - EP US); **F16F 13/007** (2013.01 - US); **B60G 15/061** (2013.01 - US); **B60G 2202/24** (2013.01 - US); **B60G 2500/10** (2013.01 - US); **B60G 2800/162** (2013.01 - US); **F16F 2222/12** (2013.01 - US); **F16F 2228/066** (2013.01 - US)

Citation (search report)

See references of WO 2017174887A1

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)

**WO 2017174887 A1 20171012**; BR 112018069386 A2 20190122; CN 108884895 A 20181123; EP 3440375 A1 20190213; FR 3050000 A1 20171013; FR 3050000 B1 20180907; US 2019154103 A1 20190523

DOCDB simple family (application)

**FR 2017050520 W 20170309**; BR 112018069386 A 20170309; CN 201780021729 A 20170309; EP 17713740 A 20170309; FR 1653132 A 20160408; US 201716091166 A 20170309