

Title (en)  
Fuel pumping mechanism

Title (de)  
Brennstoffpumpmechanismus

Title (fr)  
Mécanisme de pompage de carburant

Publication  
**EP 2910769 A1 20150826 (EN)**

Application  
**EP 14156469 A 20140225**

Priority  
EP 14156469 A 20140225

Abstract (en)  
Internal combustion engine fuel pumping mechanism (200), comprising a pumping element (214) such as a plunger, moveable within first location bore, an intermediate member such as a tappet, movable within a second location bore, and a driving mechanism such as a cam, wherein during a pumping stroke, cam load is transferred to the plunger via contact surfaces plunger and tappet contact surfaces, the plunger contact surface being radiused, and the tappet contact surface being angled at a selected angle with respect to an axial axis of the tappet, such that when the tappet tilts within the second location bore on application of cam load, the tappet contact surface becomes orthogonal with a longitudinal axis of the second bore and the plunger, ensuring a substantially central contact point between the contact surfaces. The inventive concept also extends to an intermediate member comprising a contact surface which is angled with respect to an axial axis of the intermediate member.

IPC 8 full level  
**F02M 59/10** (2006.01)

CPC (source: EP KR)  
**F02M 59/102** (2013.01 - EP KR); **F04B 1/14** (2013.01 - KR); **F04B 9/04** (2013.01 - KR)

Citation (search report)  
• [XY] DE 102006045933 A1 20080403 - BOSCH GMBH ROBERT [DE]  
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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)  
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DOCDB simple family (application)  
**EP 14156469 A 20140225**; CN 201580009926 A 20150126; EP 15702207 A 20150126; EP 2015051453 W 20150126; KR 20167023161 A 20150126