

Title (en)  
HIGH PRESSURE PUMP

Title (de)  
HOCHDRUCKPUMPE

Title (fr)  
POMPE À HAUTE PRESSION

Publication  
**EP 2464866 A1 20120620 (DE)**

Application  
**EP 10740213 A 20100803**

Priority  
• DE 102009028394 A 20090810  
• EP 2010061260 W 20100803

Abstract (en)  
[origin: WO2011018389A1] The invention relates to a high pressure pump (1), in particular serving as a radial or reciprocating pump for fuel injection systems of air-compressing, self-igniting internal combustion engines, comprising a pump assembly (6) and a drive shaft (3). The drive shaft (3) comprises a cam (5) associated with the pump assembly (6). The pump assembly (6) further comprises a pump piston (11), a roller (21) running on a cam surface (22) of the cam (5), and a roller stem (20) receiving the roller (21). Tipping of the roller stem (20) relative to a main axis (7) of the pump assembly (6), along which the pump piston (11) can be actuated, is limited by an interaction of the roller stem (20) and the pump piston (11), because the cavity shape of the roller stem (20) is radially supported in a housing bore (8).

IPC 8 full level  
**F02M 59/10** (2006.01); **F04B 1/04** (2006.01); **F04B 9/04** (2006.01)

CPC (source: EP KR)  
**F02M 59/102** (2013.01 - EP KR); **F04B 1/0439** (2013.01 - EP KR); **F04B 9/04** (2013.01 - KR); **F04B 9/042** (2013.01 - KR)

Citation (search report)  
See references of WO 2011018389A1

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 SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102009028394 A1 20110217**; CN 102472258 A 20120523; CN 102472258 B 20150812; EP 2464866 A1 20120620;  
EP 2464866 B1 20161012; KR 101773210 B1 20170831; KR 20120052293 A 20120523; WO 2011018389 A1 20110217

DOCDB simple family (application)  
**DE 102009028394 A 20090810**; CN 201080035419 A 20100803; EP 10740213 A 20100803; EP 2010061260 W 20100803;  
KR 20127003483 A 20100803