

Title (en)
HIGH PRESSURE PUMP

Title (de)
HOCHDRUCKPUMPE

Title (fr)
POMPE A HAUTE PRESSION

Publication
EP 2558706 A1 20130220 (DE)

Application
EP 11709034 A 20110302

Priority
• DE 102010003886 A 20100413
• EP 2011053095 W 20110302

Abstract (en)
[origin: WO2011128149A1] A high-pressure pump (1) which serves, in particular, as a radial or in-line piston pump for fuel injection systems of air-compressing, auto-ignition internal combustion engines, comprises a pump assembly (6) and a drive shaft (7) which has at least one cam (10) which is assigned to the pump assembly (6). Here, the pump assembly (6) comprises a roller (31) which runs on a running surface (34) of the cam (10) and a roller shoe (30) which receives the roller (31). Here, at least one anti-corrosion layer is provided on the roller (31) and/or at least one anti-corrosion layer is provided on the roller shoe (30) and/or at least one anti-corrosion layer is provided on the cam (10). This can prevent oscillation crack corrosion occurring during operation, which corrosion can lead under loading to breakouts near the surface and, as a result, to failure of the high-pressure pump.

IPC 8 full level
F02M 59/10 (2006.01); **C23C 30/00** (2006.01); **F02M 59/44** (2006.01); **F04B 1/04** (2006.01); **F04B 9/04** (2006.01)

CPC (source: EP)
C23C 30/00 (2013.01); **F02M 59/102** (2013.01); **F02M 59/445** (2013.01); **F04B 1/0413** (2013.01); **F02M 2200/9038** (2013.01); **F05C 2253/12** (2013.01)

Citation (search report)
See references of WO 2011128149A1

Citation (examination)
• EP 1881175 A1 20080123 - MOVENDI S R L [IT]
• EP 1634978 A1 20060315 - INA SCHAEFFLER KG [DE]

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

DOCDB simple family (publication)
DE 102010003886 A1 20111013; CN 102859177 A 20130102; CN 102859177 B 20151202; EP 2558706 A1 20130220; RU 2012147919 A 20140610; RU 2567529 C2 20151110; WO 2011128149 A1 20111020

DOCDB simple family (application)
DE 102010003886 A 20100413; CN 201180018671 A 20110302; EP 11709034 A 20110302; EP 2011053095 W 20110302; RU 2012147919 A 20110302