

Title (en)  
PUMP ASSEMBLY FOR A FUEL INJECTION SYSTEM

Title (de)  
PUMPENANORDNUNG FÜR EIN KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)  
ENSEMBLE POMPE POUR SYSTÈME D'INJECTION DE CARBURANT

Publication  
**EP 3298264 A1 20180328 (EN)**

Application  
**EP 16722669 A 20160513**

Priority  
• GB 201508464 A 20150518  
• EP 2016060815 W 20160513

Abstract (en)  
[origin: WO2016184797A1] A pump assembly for delivering high pressure fuel to a fuel injection system comprises: at least one pumping unit having an associated pumping element; a housing (12) defining a chamber (20) for a lubricating fluid provided through a fluid inlet (54); and a drive shaft (14) rotatably mounted in the housing, the drive shaft being rotatable about its longitudinal axis to actuate, by a cam section (40) thereof, the pumping element of the at least one pumping unit, the drive shaft comprising a radial flange (50) protruding in said chamber (20). At least one collecting channel (58) is provided in the flange (50), the collecting channel (58) having an outer end (60) opening into the chamber (20) at the outer periphery of the flange and an inner end (62) in fluid communication with a central channel (64) in the drive shaft. The central channel (64) extends longitudinally in the drive shaft (14) and has an outlet (66) in the vicinity of a fluid outlet (56) of the chamber, whereby the collecting channel (58) and central channel (64) form a back-leak flow path in said drive shaft (14).

IPC 8 full level  
**F02M 59/44** (2006.01); **F04B 53/18** (2006.01)

CPC (source: EP)  
**F02M 59/44** (2013.01); **F04B 1/0413** (2013.01); **F04B 53/006** (2013.01); **F04B 53/18** (2013.01)

Citation (search report)  
See references of WO 2016184797A1

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 2016184797 A1 20161124**; EP 3298264 A1 20180328; GB 201508464 D0 20150701

DOCDB simple family (application)  
**EP 2016060815 W 20160513**; EP 16722669 A 20160513; GB 201508464 A 20150518