

Title (en)  
PUMP, IN PARTICULAR PISTON PUMP FOR HIGH OR LOW PRESSURE

Title (de)  
PUMPE, INSBESONDERE KOLBENPUMPE FÜR HOCH- ODER NIEDERDRUCK

Title (fr)  
POMPE, EN PARTICULIER POMPE À PISTON POUR HAUTE OU BASSE PRESSION

Publication  
**EP 2547906 A1 20130123 (DE)**

Application  
**EP 11708759 A 20110302**

Priority  
• DE 102010011456 A 20100315  
• EP 2011053116 W 20110302

Abstract (en)  
[origin: WO2011113698A1] A pump, in particular a piston pump for high or low pressure, for quality-regulated or quantity-regulated internal combustion engines, in particular for motor vehicles, having at least one piston unit which can be actuated by at least one cam or eccentric of a camshaft with a roller tappet or cup tappet connected in between, wherein the pump is configured as a plug-in pump with a plug-in pump housing and is operatively connected to at least one cam or eccentric of a camshaft of the internal combustion engine or a cam section which is connected fixedly to a component of the internal combustion engine so as to rotate with it, or wherein the pump has pump elements and a housing (5) with a camshaft which is guided in said housing (5) by means of anti-friction (6, 7) or sliding bearings, wherein the housing (5) is fastened to the internal combustion engine and the camshaft is rotationally connected to the internal combustion engine, and wherein the housing (5) or plug-in pump housing has a plurality of components which are produced individually and are joined together to form a structural unit.

IPC 8 full level  
**F04B 1/04** (2006.01); **F04B 1/053** (2006.01); **F04B 17/05** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP)  
**F04B 1/0404** (2013.01); **F04B 1/053** (2013.01); **F04B 17/05** (2013.01); **F04B 53/16** (2013.01)

Citation (search report)  
See references of WO 2011113698A1

Citation (examination)  
DE 102015212731 A1 20170112 - BOSCH GMBH ROBERT [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 102010011456 A1 20110915**; CN 102859191 A 20130102; CN 102859191 B 20160120; EP 2547906 A1 20130123;  
WO 2011113698 A1 20110922

DOCDB simple family (application)  
**DE 102010011456 A 20100315**; CN 201180014124 A 20110302; EP 11708759 A 20110302; EP 2011053116 W 20110302