

Title (en)  
PLUG-IN PUMP FOR INTERNAL COMBUSTION ENGINE

Title (de)  
STECKPUMPE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)  
POMPE EMBOITABLE POUR MOTEUR A COMBUSTION INTERNE

Publication  
**EP 0873471 B1 20020320 (DE)**

Application  
**EP 96944080 A 19961220**

Priority  
• DE 19600561 A 19960109  
• EP 9605891 W 19961220

Abstract (en)  
[origin: WO9725530A1] The invention concerns a plug-in pump (5) for an internal combustion engine (2) provided with a receiving bore (4) in the cylinder block (1) to accommodate the plug-in pump (5). The latter comprises a pump plunger and a spring-loaded roller tappet (10) driven by a cam (8) of a camshaft (9). The longitudinal axis (a) of the plug-in pump (5) lies transversely in relation to the camshaft axis (c) and at a distance from it, so that the longitudinal axis (a) of the plug-in pump (5), seen in the direction of turn of the camshaft (9), lies in front of the camshaft axis (c).

IPC 1-7  
**F02M 39/02**

IPC 8 full level  
**F02B 63/06** (2006.01); **F02M 39/02** (2006.01); **F02M 55/02** (2006.01); **F02M 59/10** (2006.01); **F02M 59/48** (2006.01); **F02M 61/14** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)  
**F02B 63/06** (2013.01 - EP US); **F02M 39/02** (2013.01 - EP US); **F02M 55/02** (2013.01 - EP US); **F02M 59/102** (2013.01 - EP US); **F02M 59/48** (2013.01 - EP US); **F02M 61/14** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **F02B 2275/14** (2013.01 - EP US)

Citation (examination)  
• EP 0543301 A1 19930526 - KLOECKNER HUMBOLDT DEUTZ AG [DE]  
• DE 4040937 A1 19920625 - KLOECKNER HUMBOLDT DEUTZ AG [DE]

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 9725530 A1 19970717**; BR 9612417 A 19991228; DE 19600561 C1 19970821; DE 59608933 D1 20020425; EP 0873471 A1 19981028; EP 0873471 B1 20020320; US 5979416 A 19991109

DOCDB simple family (application)  
**EP 9605891 W 19961220**; BR 9612417 A 19961220; DE 19600561 A 19960109; DE 59608933 T 19961220; EP 96944080 A 19961220; US 11907798 A 19980709