

Title (en)
PUMP, PARTICULARLY A HIGH-PRESSURE FUEL PUMP

Title (de)
PUMPE, INSBESONDERE KRAFTSTOFFHOCHDRUCKPUMPE

Title (fr)
POMPE, EN PARTICULIER POMPE À CARBURANT HAUTE PRESSION

Publication
EP 2271838 B1 20110608 (DE)

Application
EP 09726240 A 20090202

Priority

- EP 2009051112 W 20090202
- DE 102008000824 A 20080326

Abstract (en)
[origin: US2011023704A1] The invention relates to a pump, having at least one pump element, which has a pump piston driven in a lifting motion at least indirectly by a drive shaft. The pump piston is guided in a cylinder bore of a housing part of the pump, and the housing part has a cylindrical section surrounding the cylinder bore. A cup-shaped tappet is disposed between the pump piston and the drive shaft and has a bottom facing the drive shaft. A jacket of the tappet is guided on the cylindrical section of the housing part in a displaceable manner. A spring is provided, by means of which the tappet is pressurized toward the drive shaft. The pump piston abuts the bottom of the tappet with the front thereof facing the drive shaft. A disk is mounted on the pump piston in the end region thereof facing the base of the tappet has a greater outside diameter than the pump piston. The pump piston has the disk is secured in the tappet in the direction of the longitudinal axis of the pump piston by means of a safety element engaging in the disk.

IPC 8 full level
F04B 1/04 (2006.01)

CPC (source: EP US)
F04B 1/0426 (2013.01 - EP US); **F04B 1/0439** (2013.01 - EP US)

Cited by
GB2570290A; GB2570290B

Designated contracting state (EPC)
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 TR

DOCDB simple family (publication)
US 2011023704 A1 20110203; AT E512299 T1 20110615; CN 101981316 A 20110223; CN 101981316 B 20130724;
DE 102008000824 A1 20091001; EP 2271838 A1 20110112; EP 2271838 B1 20110608; JP 2011518271 A 20110623; JP 5323173 B2 20131023;
WO 2009118212 A1 20091001

DOCDB simple family (application)
US 93441609 A 20090202; AT 09726240 T 20090202; CN 200980110468 A 20090202; DE 102008000824 A 20080326;
EP 09726240 A 20090202; EP 2009051112 W 20090202; JP 2011501159 A 20090202