

Title (en)  
CONTROLLABLE COOLANT PUMP

Title (de)  
REGELBARE KÜHLMITTELPUMPE

Title (fr)  
POMPE À RÉFRIGÉRANT RÉGLABLE

Publication  
**EP 3017196 B1 20170920 (DE)**

Application  
**EP 14755323 A 20140627**

Priority  
• DE 102013011209 A 20130704  
• DE 2014000327 W 20140627

Abstract (en)  
[origin: DE102013011209B3] The pump has a pump housing (1) that comprises a slide valve with uniformly distributed guide rods, is arranged parallel to a pump shaft. A return spring is arranged between a spring contact plate and a spring clamping plate in a hydraulic chamber. A control valve (31) is provided between a control channel and a return channel. A solenoid coil is arranged adjacent a magnetic working chamber in the hydraulic chamber. A piston rod is connected with a permanent magnet, and linearly moved with respect to the solenoid coil.

IPC 8 full level  
**F04D 15/00** (2006.01)

CPC (source: EP)  
**F04D 15/0038** (2013.01); **F05D 2270/64** (2013.01)

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 102013011209 B3 20140123**; EP 3017196 A1 20160511; EP 3017196 B1 20170920; WO 2015000456 A1 20150108

DOCDB simple family (application)  
**DE 102013011209 A 20130704**; DE 2014000327 W 20140627; EP 14755323 A 20140627