

Title (en)
PUMP WITH ADJUSTABLE TRANSPORT VOLUME

Title (de)
PUMPE MIT VERSTELLBAREM FÖRDERVOLUMEN

Title (fr)
POMPE À DÉBIT VOLUMIQUE RÉGLABLE

Publication
EP 3179108 A3 20170712 (DE)

Application
EP 16203242 A 20161209

Priority
DE 102015121672 A 20151211

Abstract (en)
[origin: US2017167484A1] A pump which exhibits an adjustable delivery volume, the pump including (a) a pump housing comprising a delivery chamber; (b) a delivery rotor which can be rotated about a rotary axis within the delivery chamber, for delivering the fluid; (c) an adjusting device, including: (c1) an adjusting member which can be adjusted in the pump housing in order to adjust the delivery volume of the pump; (c2) a first setting chamber for generating a first setting pressure for adjusting the adjusting member; (c3) and a second setting chamber for generating a second setting pressure for adjusting the adjusting member; (d) a fluidically operable valve for adjusting the setting pressure of the first setting chamber; (e) and an electromagnetic valve, comprising: a pressure port for a setting fluid which is diverted from the high-pressure side; and a relief port for the setting fluid.

IPC 8 full level
F04C 14/22 (2006.01); **F04C 2/344** (2006.01)

CPC (source: CN EP US)
F04C 2/344 (2013.01 - EP US); **F04C 2/3442** (2013.01 - US); **F04C 14/22** (2013.01 - CN); **F04C 14/223** (2013.01 - US);
F04C 14/226 (2013.01 - EP US)

Citation (search report)
• [X] US 2015252803 A1 20150910 - OHNISHI HIDEAKI [JP], et al
• [AD] WO 2008037070 A1 20080403 - MAGNA POWERTRAIN USA INC [CA], et al
• [AD] WO 2006066405 A1 20060629 - MAGNA POWERTRAIN USA INC [CA], et al

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)
DE 102015121672 B3 20170504; CN 106870359 A 20170620; CN 106870359 B 20200710; EP 3179108 A2 20170614;
EP 3179108 A3 20170712; EP 3179108 B1 20190731; US 10473100 B2 20191112; US 2017167484 A1 20170615

DOCDB simple family (application)
DE 102015121672 A 20151211; CN 201611140878 A 20161212; EP 16203242 A 20161209; US 201615370358 A 20161206