

Title (en)
Pump

Title (de)
Pumpe

Title (fr)
Pompe

Publication
EP 2455615 B1 20170816 (DE)

Application
EP 11187213 A 20111031

Priority
• DE 102010044167 A 20101119
• DE 102011079897 A 20110727

Abstract (en)
[origin: EP2455615A2] The pump (1) has an impeller (3) that is located on a pump shaft (2). An adjustable slider (4) is displaced over the impeller to control delivery rate of fluid pressure from a main portion. A displacement pump (6) is arranged on pump shaft to set steering fluid pressure in main portion. A valve (7) is provided to separate the suction side and pressure side of the displacement pump.

IPC 8 full level
F04D 15/00 (2006.01)

CPC (source: EP KR)
F01P 5/10 (2013.01 - KR); **F01P 7/14** (2013.01 - KR); **F01P 11/00** (2013.01 - KR); **F04D 5/002** (2013.01 - EP); **F04D 15/0038** (2013.01 - EP); **F05D 2270/64** (2013.01 - EP)

Cited by
US9080573B2; CN108350886A; EP3290713A1; US2012204818A1; EP2489881A3; US10508650B2; US10982676B2; WO2017076645A1; WO2017076524A1

Designated contracting state (EPC)
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EP 2455615 A2 20120523; EP 2455615 A3 20140409; EP 2455615 B1 20170816; CN 102477996 A 20120530; CN 102477996 B 20160330; KR 101819750 B1 20180117; KR 20120054537 A 20120530

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EP 11187213 A 20111031; CN 201110371741 A 20111121; KR 20110120308 A 20111117