

Title (en)

Piston pump, particularly high pressure piston pump

Title (de)

Kolbenpumpe, insbesondere Hochdruck-Kolbenpumpe

Title (fr)

Pompe à piston, notamment pompe haute pression à piston

Publication

EP 1519033 A3 20060517 (DE)

Application

EP 04104464 A 20040915

Priority

DE 10344459 A 20030925

Abstract (en)

[origin: EP1519033A2] A piston pump (18) especially for high pressure, comprises a housing (28) and a piston (40) with a piston spring (72) on a spring plate (72) with the plate axially supporting the piston. The plate supports a support disc (68) that engages with a ring slot (66) in the cover surface of the piston.

IPC 8 full level

F02M 59/06 (2006.01); **F02M 59/10** (2006.01); **F02M 59/44** (2006.01); **F02M 63/02** (2006.01); **F04B 1/04** (2006.01)

CPC (source: EP)

F02M 59/102 (2013.01); **F02M 59/44** (2013.01); **F02M 63/0225** (2013.01); **F04B 1/0426** (2013.01)

Citation (search report)

- [X] DE 10147981 A1 20030424 - SIEMENS AG [DE]
- [A] WO 03014569 A1 20030220 - CRT COMMON RAIL TECH AG [CH], et al
- [A] US 2003121996 A1 20030703 - SMITH DANIEL [US], et al
- [A] DE 3201011 A1 19830728 - BOSCH GMBH ROBERT [DE]
- [AD] EP 1162365 A1 20011212 - HITACHI LTD [JP], et al

Cited by

US9410519B2; WO2010050569A1; CN106014736A; KR20170040760A; US2011253109A1; CN102197212A; EP2341237A4; ITMI20120270A1; CN105121831A; JP2016515681A; ITMI20110976A1; EP3153702A1; KR20170040758A; DE102009027689A1; DE102009027937A1; DE102009027576A1; WO2012019881A1; WO2012163576A1; WO2013124097A1; WO2014170105A1; JP2010106740A

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