

Title (en)

Gear pump with variable delivery volume

Title (de)

Zahnradpumpe mit variabel Fördervolume

Title (fr)

Pompe à engrenages avec un volume de pompage variable

Publication

EP 2538082 B1 20180711 (DE)

Application

EP 12169014 A 20120523

Priority

DE 102011077949 A 20110622

Abstract (en)

[origin: EP2538082A2] The gear pump (1) has a housing (2), which has a chamber (20), in which two intermeshing gears (9,10) are pivoted. The housing has an inlet guiding into the chamber and an outlet passing out from the chamber. A cover (19) is provided for bordering the chamber from a front side. The cover is displaced for increasing the chamber volume in an area wise manner. The cover is axially displaceable. A spring element (23) is assigned to the cover, where the spring element impinges the cover with the spring force in the direction of the intermeshing gears.

IPC 8 full level

F04C 2/14 (2006.01); **F04C 14/20** (2006.01)

CPC (source: EP)

F04C 2/14 (2013.01); **F04C 14/265** (2013.01); **F04C 15/0042** (2013.01)

Citation (examination)

US 5417556 A 19950523 - WADDLETON DAVID [CA]

Cited by

US2017254329A1; US10724519B2; FR3013762A1; CN105765222A; DE102016202260A1; WO2015078777A1; US10280920B2; US10920771B2

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