

Title (en)
Gear wheel pump with shaft seal

Title (de)
Zahnradpumpe mit Wellendichtung

Title (fr)
Pompe à engrenages à joint d'étanchéité d'arbre

Publication
EP 2216550 A3 20160727 (DE)

Application
EP 10001269 A 20100208

Priority
DE 202009001525 U 20090206

Abstract (en)
[origin: EP2216550A2] The pump (10) has shaft journals (18B) rotatably connected with a drive gear (16A) and rotatably mounted in housing covers (14A, 14B) at both sides of the drive gear. A shaft seal (26) controls leakage of fluid to be pumped and seals an actuator pivot (18A) with respect to one of the housing covers penetrated by the actuator pivot. The shaft seal is arranged at an inner side of one of the housing covers that is penetrated from the actuator pivot, where the inner side faces the drive gear and another drive gear (16B).

IPC 8 full level
F04C 2/18 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 2/14 (2013.01); **F04C 15/0038** (2013.01); **F01C 21/108** (2013.01)

Citation (search report)

- [X] DE 3312868 A1 19841018 - GLYCO ANTRIEBSTECHNIK GMBH [DE]
- [X] JP 3169146 B2 20010521
- [X] EP 1081382 A2 20010307 - BOSCH GMBH ROBERT [DE]
- [A] WO 9742415 A1 19971113 - ECOLAB INC [US]

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 202009001525 U1 20100624; EP 2216550 A2 20100811; EP 2216550 A3 20160727; EP 2216550 B1 20180725; ES 2688647 T3 20181106; PL 2216550 T3 20181231

DOCDB simple family (application)
DE 202009001525 U 20090206; EP 10001269 A 20100208; ES 10001269 T 20100208; PL 10001269 T 20100208