Title (en)
  GEAR WHEEL PUMP

Title (de)
  ZAHNRADPUMPE

Title (fr)
  POMPE À ENGRENAGES

Publication
  EP 2122175 A1 20091125 (DE)

Application
  EP 08717596 A 20080311

Priority
  • EP 2008052849 W 20080311
  • DE 102007013161 A 20070320

Abstract (en)
[origin: WO2008113712A1] The invention relates to a gear wheel pump with two meshing gear wheels which are rotatably mounted within a pump housing by means of a driven driveshaft and a crankshaft journal and which form a pumping channel system between a pump inlet and a pump outlet. Several gaps are formed between the pump housing, the gear wheels, the driveshaft, and the crankshaft journal. One of the gaps between the driveshaft and one of the gear wheels contains means for the rotationally fixed connection of the driveshaft to the gear wheel. In order to prevent leakages penetrating to the connecting means, according to the invention the gap between the driveshaft and the gear wheel is sealed, with respect to the front faces of the gear wheel, by means of a sealant.

IPC 8 full level
  F04C 2/18 (2006.01); **F04C 2/08** (2006.01); **F04C 13/00** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP KR US)
  F04C 2/08 (2013.01 - KR); **F04C 2/086** (2013.01 - EP US); **F04C 2/18** (2013.01 - EP KR US); **F04C 13/00** (2013.01 - KR);
  F04C 13/005 (2013.01 - EP US); **F04C 15/00** (2013.01 - KR); **F04C 15/0038** (2013.01 - EP US)

Citation (search report)
  See references of WO 2008113712A1

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
  WO 2008113712 A1 20080925; CN 101657643 A 20100224; CN 101657643 B 20121226; EP 2122175 A1 20091125;
  EP 2122175 B1 20150729; ES 2550459 T3 20151110; HU E025876 T2 20160428; KR 101503088 B1 20150316; KR 20100015624 A 20100212;
  MX 2009010073 A 20100120; PL 2122175 T3 20160429; PT 2122175 E 20151112; RU 2009138374 A 20110427; RU 2435073 C2 20111127;
  US 2010278676 A1 20101104; US 9004890 B2 20150414; ZA 200905633 B 20100526

DOCDB simple family (application)
  EP 2008052849 W 20080311; CN 200880008985 A 20080311; EP 08717596 A 20080311; ES 08717596 T 20080311;
  HU E08717596 A 20080311; KR 20097021584 A 20080311; MX 2009010073 A 20080311; PL 08717596 T 20080311; PT 08717596 T 20080311;
  RU 2009138374 A 20080311; US 53165008 A 20080311; ZA 200905633 A 20090813