

Title (en)
Gear pump

Title (de)
Zahnradpumpe

Title (fr)
Pompe à engrenages

Publication
EP 1457678 A1 20040915 (EN)

Application
EP 04005946 A 20040311

Priority
JP 2003069529 A 20030314

Abstract (en)
A two-stage gear pump has a pump section. The pump section has an internal space (51,52) that is located adjacent to a driven gear and about a cylindrical surface of the driven shaft. A discharge section of a first gear train is connected to a suction section of a second gear train with a communication passage (43). The internal space is connected to the communication passage with a pressure introduction passage (67,72). The pressure of the communication passage is introduced to the internal space by the pressure introduction passage, so that the pressure atmosphere of the internal space is an intermediate pressure atmosphere of the suction pressure and the discharge pressure of the pump section. <IMAGE>

IPC 1-7
F04C 2/18; **F04C 11/00**; **F04C 15/00**; **F04C 2/08**

IPC 8 full level
F04C 2/08 (2006.01); **F04C 2/18** (2006.01); **F04C 11/00** (2006.01); **F04C 14/24** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)
F04C 2/086 (2013.01 - EP US); **F04C 2/18** (2013.01 - EP US); **F04C 11/001** (2013.01 - EP US); **F04C 15/0038** (2013.01 - EP US); **F04C 2210/20** (2013.01 - EP US); **F04C 2210/201** (2013.01 - EP US)

Citation (search report)

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