

Title (en)
NUTATING PISTON PUMP

Publication
EP 0053868 A3 19830803 (EN)

Application
EP 81301961 A 19810505

Priority
JP 17247880 A 19801206

Abstract (en)
[origin: EP0053868A2] A rotary pump having an eccentric rotor (14) adapted to effect eccentric motion relative to the axis of the pump shaft (7) within a pump casing (1) to cause pumping action in a pump chamber. The pump comprises a pump casing (1), a pump shaft (7) mounted on the pump casing, a pair of eccentric rotors (14) mounted on the pump shaft (7) with angular spacing apart of 180 DEG , a pair of diaphragms (24) on the eccentric rotors (14) to define a pair of pump chambers P, a partition member (36) adapted to divide the pump chamber into a suction chamber (Pi) and an exhaust chamber (Pe), and an intake port (42) and an exhaust port (43) in communication with the suction and exhaust chambers, respectively, the intake port being cut off from its communication with the exhaust port by the partition member during rotation of the pump shaft.

IPC 1-7
F04C 2/04; **F04C 5/00**

IPC 8 full level
F04C 2/04 (2006.01); **F04C 5/00** (2006.01)

CPC (source: EP)
F04C 2/04 (2013.01); **F04C 5/00** (2013.01)

Citation (search report)
• [X] US 2946291 A 19600726 - ADOLF ROEBIG
• [Y] LU 39826 A1 19610424
• [Y] DE 571668 C 19330303 - EDOUARD GODILLOT
• [Y] GB 671094 A 19520430 - VANTON PUMP CORP
• [Y] GB 2018900 A 19791024 - ITO KAZUICHI
• [Y] FR 1095539 A 19550603
• [Y] US 4219314 A 19800826 - HAGGERTY DENNIS M [US]

Cited by
DE102019213611A1; US4789315A; FR2631081A1; CN111183286A; EP0819853A3; US11499551B2; US7198883B2; WO2019016522A1; WO8605241A1; WO2019016518A1

Designated contracting state (EPC)
CH DE FR GB IT LI NL

DOCDB simple family (publication)
EP 0053868 A2 19820616; **EP 0053868 A3 19830803**; JP S5797090 A 19820616

DOCDB simple family (application)
EP 81301961 A 19810505; JP 17247880 A 19801206