

Title (en)
SWASH PUMP.

Title (de)
TAUMELSCHEIBENPUMPE.

Title (fr)
POMPE A DISQUE EN NUTATION.

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Application
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Abstract (en)
[origin: US5454699A] PCT No. PCT/EP92/02076 Sec. 371 Date Mar. 23, 1994 Sec. 102(e) Date Mar. 23, 1994 PCT Filed Sep. 8, 1992 PCT Pub. No. WO93/06371 PCT Pub. Date Apr. 1, 1993. A swash plate pump having a pump housing comprises a swash plate shaft and a swash plate being disposed in a pump chamber. The pump chamber has an intake and a delivery opening. The pump chamber is formed by two lateral surfaces and by a spherical inner surface and a spherical outer surface. The swash plate performs a wobbling motion. The swash plate is provided with a circular ring that is mounted on the spherical inner surface. A partition, which divides the circular ring of the swash plate, is disposed in the housing with at least one first lateral space disposed on a side that is remote from a drive of the swash plate and a second lateral space disposed on a side that is adjacent to the drive of the swash plate. The shaft passes through a plurality of dynamic seals in the housing. The section of the shaft, disposed within the housing, is in fluid communication with the pump chamber by the medium to be pumped. A first elastic static seal is provided for shutting off the space acted upon by the medium to be pumped. The lateral spaces, supplied with the medium to be pumped, are in fluid communication with the intake and delivery part of the pump and have the flow moving through them, in the direction of the medium to be pumped.

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