

Title (en)
PULSELESS PISTON PUMP

Title (de)
IMPULSFREIE KOLBENPUMPE

Title (fr)
POMPE A PISTON SANS IMPULSIONS

Publication
EP 0486556 B1 19960508 (EN)

Application
EP 90912068 A 19900705

Priority
• US 39109789 A 19890808
• US 9003786 W 19900705

Abstract (en)
[origin: WO9102158A1] A multiple piston cylinder reciprocating pump (10) is provided with a cam drive (18) such that the sum of the velocities during the pumping strokes of all of the cylinders is generally constant. The leak free design is provided by utilizing a diaphragm (36) attached to the piston (34) between the main seal assembly and the cam (18). A flow through intake design is provided which flows incoming material around the piston (34) between the diaphragm (36) and the main seal to prevent the build-up and hardening of material on the piston (34) and in the seal area. The intake (40) and exhaust (56) passages are arranged such that air pockets cannot be formed and any air bubbles which find their way into the pump will rise upwardly out of the pump without restriction.

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