

Title (en)
Rotary piston machine

Title (de)
Drehkolbenmaschine

Title (fr)
Machine à piston rotatif

Publication
EP 0784147 B1 20010718 (DE)

Application
EP 97100099 A 19970107

Priority
• DE 19601148 A 19960115
• DE 19603669 A 19960202

Abstract (en)
[origin: US5860802A] A rotary piston machine includes a piston arrangement mounted in a gas-tight interior housing, wherein the piston arrangement has at least four individual rotary pistons which are constructed essentially equally and have end faces which are arranged so as to be in alignment with each other. The rotary piston machine further includes sealing assemblies composed of positioning members and sealing rods, wherein a sealing assembly is provided for each gap between adjacent rotary pistons and wherein each sealing assembly includes at least one sealing rod. The center points of circular arcs with two different radii defining the cross-section of each rotary piston are located on the corner points of a rhombus and the center points of the larger circular arcs are located in the corner points with the larger rhombus angles, wherein the larger rhombus angle is greater by 50 DEG to 50 DEG than the smaller rhombus angle. The sealing rods have cross-sectional areas in a direction perpendicularly to the longitudinal axes of the sealing rods which are defined outwardly by a circle. The sealing rods are freely rotatable about their longitudinal axes.

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IPC 8 full level
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CPC (source: EP US)
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