

Title (en)  
PISTON MACHINE.

Title (de)  
KOLBENMASCHINE.

Title (fr)  
MACHINE A PISTON.

Publication  
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Application  
**EP 93912894 A 19930604**

Priority  
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Abstract (en)  
[origin: US5681156A] PCT No. PCT/EP93/01422 Sec. 371 Date Jan. 12, 1995 Sec. 102(e) Date Jan. 12, 1995 PCT Filed Jun. 4, 1993 PCT Pub. No. WO93/25801 PCT Pub. Date Dec. 23, 1993A piston machine usable as an expansion engine, suction pump or compressor for a compressible medium has a housing containing a working space with two parallel walls and an interconnecting peripheral wall perpendicular to the parallel walls, the peripheral wall having a first chamber surface. A piston has a second chamber surface cooperating with the first chamber surface to form a chamber of variable volume. Two identical crankshafts rotatably mounted in the housing have crank pins rotatable in and supporting the piston, the crankshafts being coupled together for angular synchronous rotation. A first sealing element is mounted on the piston and a second sealing element is mounted on the peripheral wall. Each of the first and second chamber surfaces is formed as a sliding surface to slidingly engage the sealing element of the other of said chamber surfaces during piston rotation. The housing provides a high-pressure gas passage having an opening communicating with the chamber and a low-pressure gas passage communicating with a working space outside of the chamber.

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IPC 8 full level  
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