

Title (en)

MACHINE, ESPECIALLY FOR THE COMPRESSION OR DISPLACEMENT OF FLUIDS

Publication

EP 0147654 B1 19900502 (DE)

Application

EP 84114423 A 19841129

Priority

DE 3343908 A 19831205

Abstract (en)

[origin: JPS60173384A] PURPOSE:To improve the sealing property of a cylinder and a piston and enhance the efficiency of a compressor, by making the center of gyration of the rolling piston and the axis of the cylinder uncoincident with each other, and by placing the curved portions of the piston and the cylinder in tight contact with each other. CONSTITUTION:When a separation slide valve 5 is at the top dead center, the restoring force of the valve is about to deform a rolling piston 7 in a region phi and put the piston out of contact with the inside 101 of the internal hole of a cylinder 1. However, since a counterforce is caused due to the eccentricity $e + \Delta e$ of the cylinder 1 and the piston 7, the piston is always maintained in a closed state by friction. Rollers 84, 83, 82 act to prevent the basic form of the rolling piston from undergoing a large change.

IPC 1-7

F04C 2/356

IPC 8 full level

F04C 18/356 (2006.01); **F04C 2/356** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)

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Cited by

DE3542776A1; DE202016101907U1

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DE 3343908 A1 19840628; DE 3482128 D1 19900607; EP 0147654 A2 19850710; EP 0147654 A3 19850814; EP 0147654 B1 19900502; JP S60173384 A 19850906; US 4580957 A 19860408

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