

PUBLISHED
JUNE 15, 1943.

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PISTON AND PISTON-ROD RINGS

Serial No.
402,418

BY A. P. C.

Filed July 14, 1941

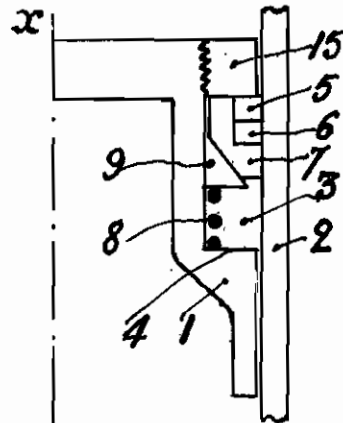


Fig. 1.

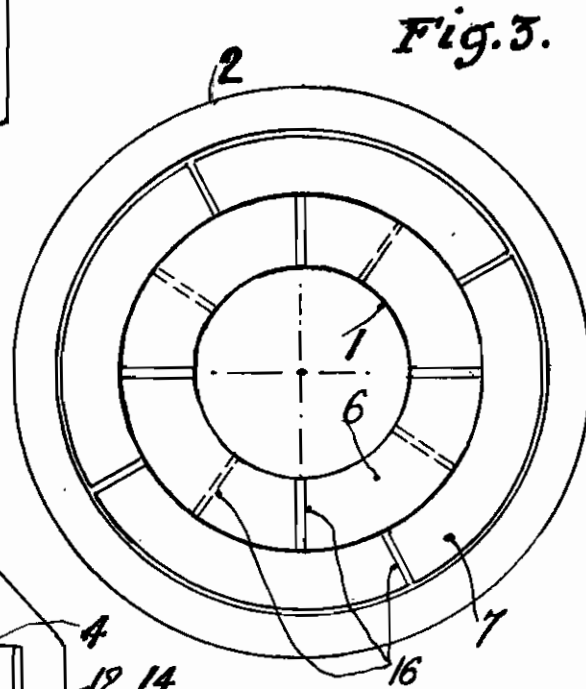


Fig. 3.

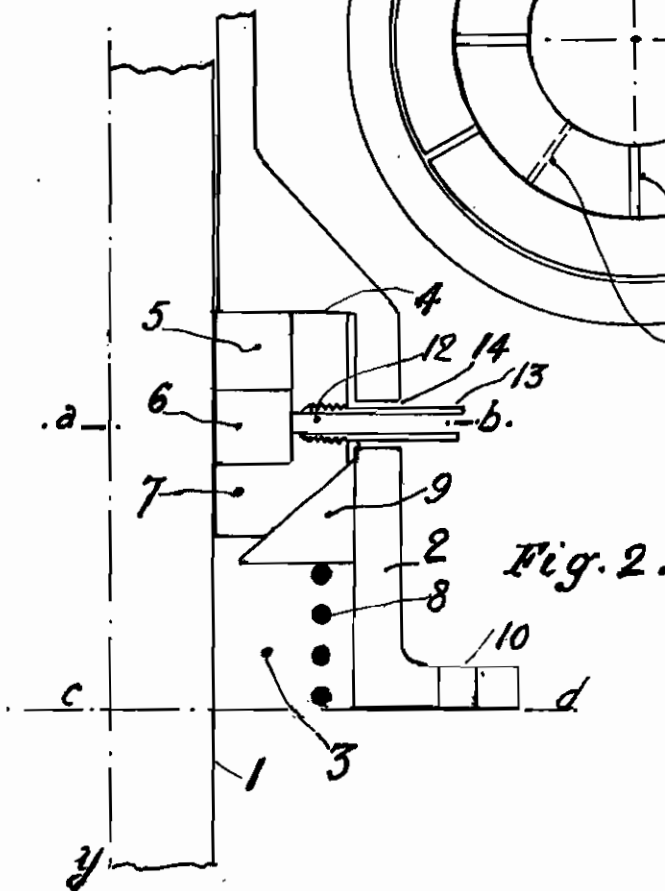


Fig. 2.

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ALIEN PROPERTY CUSTODIAN

PISTON AND PISTON-ROD RINGS

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vested in the Alien Property Custodian

Application filed July 14, 1941

This invention relates to improvements in piston and piston-rod rings; one object of the invention is to provide in a motor, pump or gas compressor a close fitting joint of the rings with the piston or the piston-rod and the cylinder.

The invention comprises too novel means for oiling in connection with the above and other features an example of which is given in this specification and illustrated in the accompanying drawings in which:

Figure 1 shows a fragmentary $\frac{1}{2}$ symmetrical (to line X—Y) longitudinal view of a piston bearing the rings and of its cylinder;

Figure 2 shows a fragmentary $\frac{1}{2}$ symmetrical (to line X—Y) longitudinal view of a piston and of its cylinder bearing the rings.

Figure 3 is a complete sectional view according the line a—b of Fig. 2 to show the displacement between themselves of ring cuttings.

In these figures, numeral 1 designates the piston (or a piston-rod in Fig. 2); numeral 2 designates the cylinder; numeral 3 is an annular chamber provided in piston-walls (Fig. 1) or in cylinder walls (Fig. 2) with abutment 4 against which

the annular rings 5, 6, 7 (fractioned in for instance four equal parts cuttings of which 16 are displaced between themselves so as to close every possible passage to fluid) are pressed as well as against the piston I (Fig. 2) or the cylinder (Fig. 1) by means of a conical ring 9 (fitting to conical margin of ring 7) itself pushed by coil spring 8 compressed (in Fig. 1) by a threaded annular plate 15 or (Fig. 2) by another set of rings located in a symmetrically (to line C—d) opposed cylinder connected to cylinder I through the hole-bored projecting sides 10.

Spring 6 may also be compressed against an annular plate allowing passage for piston or piston-rod and bolted to the same projecting sides 10.

One or several parts of the outer all covering ring 9 may be hole-bored in 12 to receive by threading a pipe 13 crossing cylinder walls by hole 14 so as to carry oil under pressure inside the rings if said oil can not be brought in chamber 3 between two symmetrical sets of rings.

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