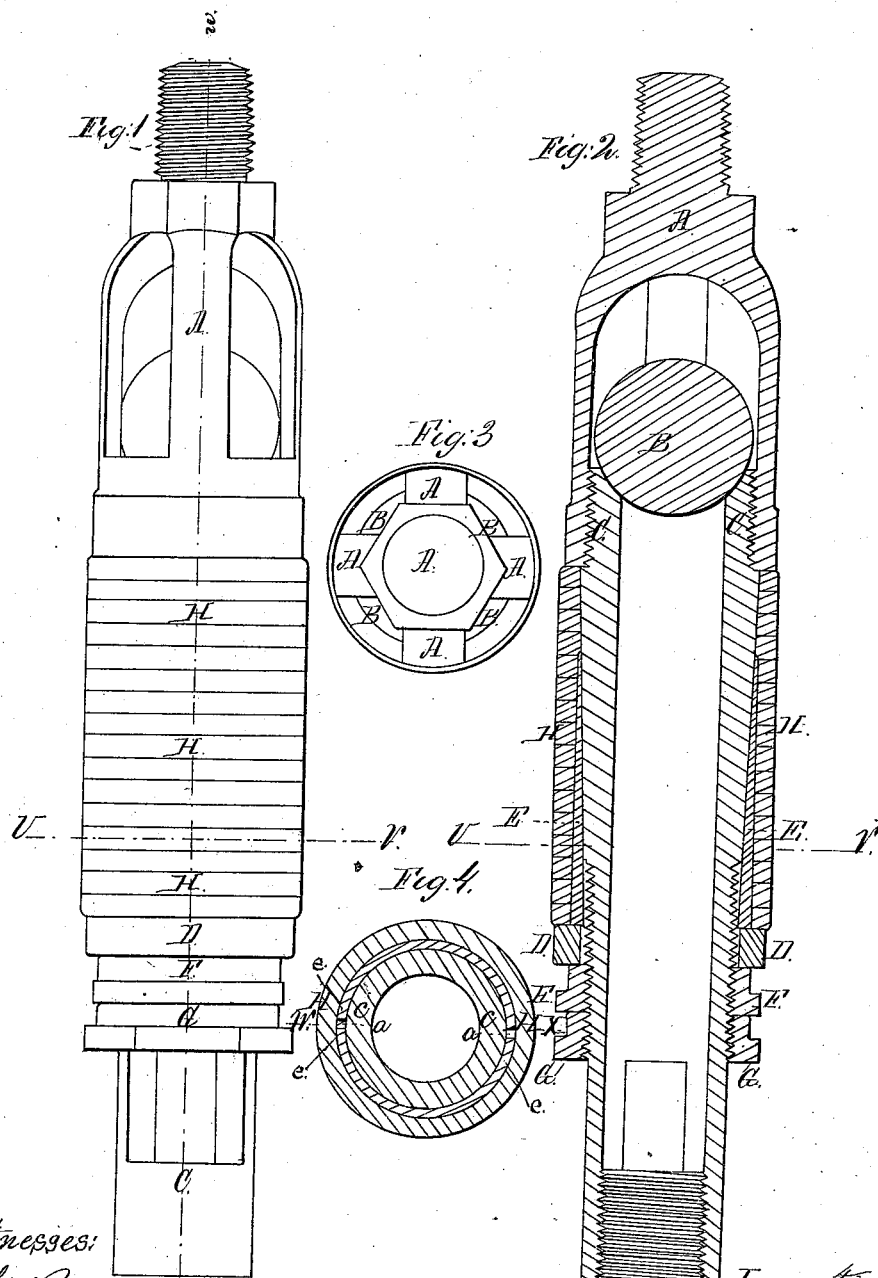


J. Carter,

Pump Packing,

No 54,295,

Patented May 1, 1866.



Witnesses:
Robt Duggs
L M Hoffmiller

Inventor
John Carter

UNITED STATES PATENT OFFICE.

JOHN CARTER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN PACKINGS FOR PUMP-PISTONS.

Specification forming part of Letters Patent No. 54,295, dated May 1, 1866.

To all whom it may concern:

Be it known that I, JOHN CARTER, of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a new and Improved Expanding Packing for Pumps; and I do hereby declare that the following is a full and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation. Fig. 2 is a longitudinal section on the line W X. Fig. 3 is a top view. Fig. 4 is a cross-section on the line U V.

The letters of reference indicate in all the views similar parts.

I prefer to construct my pump-piston and its valve in the form shown in the drawings, wherein A represents the bail of the piston; B, the ball-valve; C, the body of the piston; D, a ring or washer; E, an expanding shell or ring with a longitudinal slit at *a* on Fig. 4. F and G are following-nuts, and H is a leather packing.

The body of the piston C, when the leather

packing H incloses it, is turned conically, and a portion below the leather packing has a screw cut on the outside for the nuts F and G to run upon. The shell E is turned out conically to the same taper with the body on which it is placed, and is turned off on the outside cylindrically, and a longitudinal or diagonal slit is cut along it. The object of this construction is that by forcing the ring D, by the following-nuts F and G, against the thicker end of the shell E, it will expand as a wedge and distend the packing H, (which packing may be made in cross-rings edgewise of leather, as shown, or otherwise,) and thus compensate for wear in use, allowing the packing to be turned off if it has worn unequally.

What I claim and desire to secure by Letters Patent, is—

The expanding packing H and wedge E upon the conical body C, all combined and arranged substantially as described.

JOHN CARTER.

Witnesses:

ROBT. BRIGGS,
L. M. HALLOWELL.