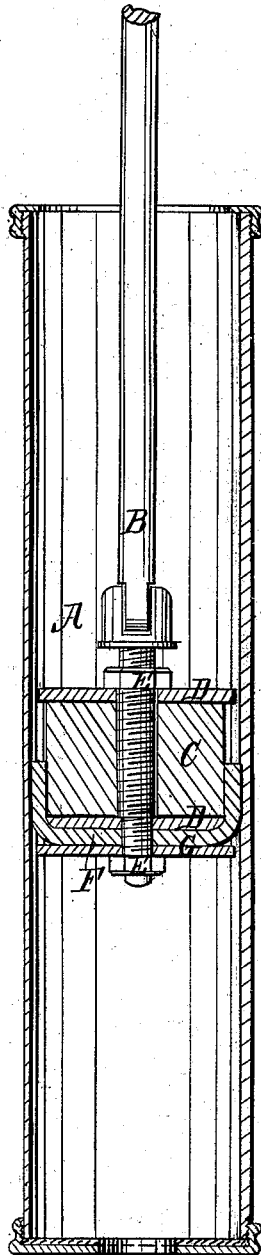


P. C. Rowe,
Pump Piston
N^o 48,098. Patented June 6, 1865.



Witnesses;
W. H. Earne
C. L. Torrey

Inventor;
P. C. Rowe.
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UNITED STATES PATENT OFFICE.

PHILIP C. ROWE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN PISTONS FOR PUMPS.

Specification forming part of Letters Patent No. 48,098, dated June 6, 1865.

To all whom it may concern:

Be it known that I, PHILIP C. ROWE, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Plunger or Piston for Pumps; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The drawing is a central section of my invention fitted in a pump-cylinder and bisected longitudinally.

This invention consists in the employment or use of a piece of leather (one or more) of cup form and an elastic cylinder placed on the piston-rod and arranged with metal disks and nuts in such a manner that the leather cups may be expanded, so as to operate tightly within the pump-cylinder by compressing the elastic cylinder, as herein fully shown and described.

A represents a pump-cylinder, and B the piston-rod, on the inner end of which a screw-thread is cut and a cylinder of india-rubber or other elastic material, C, fitted, said cylinder C having a metal, D, at each end of it, and a nut, E, on the screw at the outer side of

each disk. The cylinder C and disks D are less in diameter than the interior of the pump-cylinder A.

F represents a piece of leather, of cup form or shape, which is fitted on the piston-rod B at the outer side of the lower disk, G, at its outer side, the lower nut, E, being at the outer side of G. The side of the leather cup F works against the inner surface of the pump-cylinder, and is made to press against it by compressing the elastic cylinder C, through the medium of the nuts E E, and, if necessary or desired, a leather cup may be used at each end of the elastic cylinder C, a sufficient space being allowed between the edges of the two, so that they cannot come in contact under any degree of compression that it may be necessary to give the cylinder C.

I claim as new and desire to secure by Letters Patent—

The elastic cylinder C, in combination with one or more elastic leather cups, F, with disks and nuts, all placed on the piston-rod, and arranged substantially as and for the purpose set forth.

PHILIP C. ROWE.

Witnesses:

J. P. HEALY,
R. I. BURBANK.