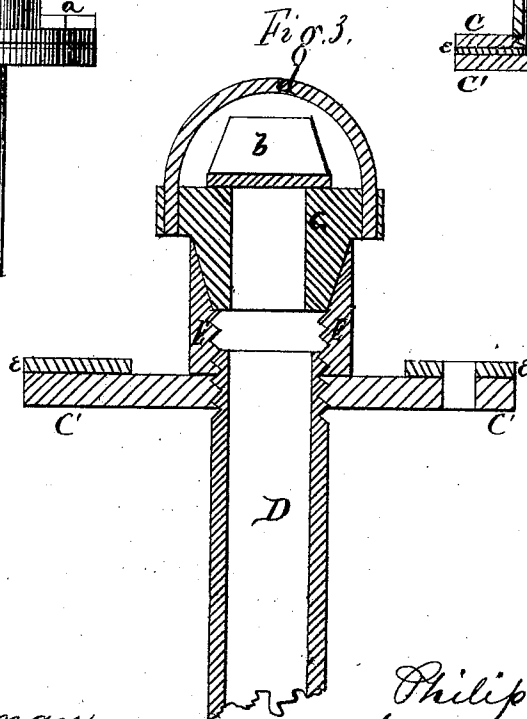
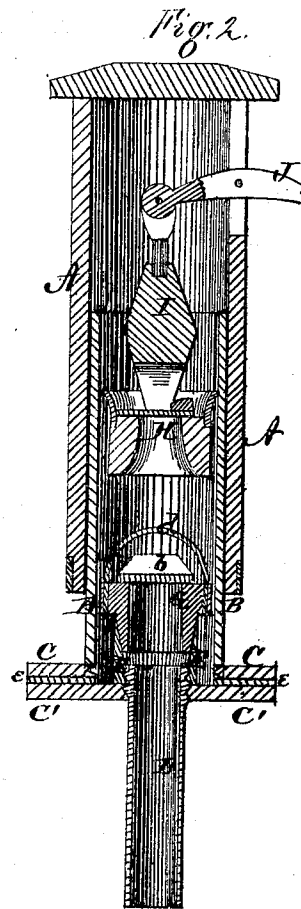
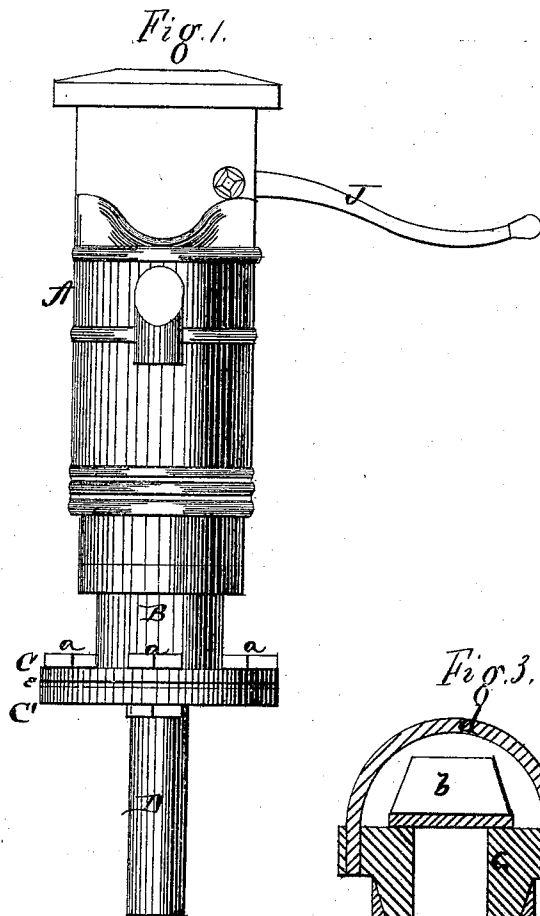


P. COPE.
Improvement in Pumps.

No. 128,123.

Patented June 18, 1872.



Witnesses:

W. D. Newman,
C. L. Ewert.

Inventor

Philip Cope,
per Alexander Mason
Attorneys.

UNITED STATES PATENT OFFICE.

PHILIP COPE, OF OAKFIELD, NEW YORK.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. 128,123, dated June 18, 1872.

To all whom it may concern:

Be it known that I, PHILIP COPE, of Oakfield, in the county of Genesee and in the State of New York, have invented certain new and useful Improvements in Pumps; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "pump," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of my pump. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is an enlarged vertical section of the lower head of the pump-cylinder with valve-seat and valve.

A represents the pump-stock, made of wood or iron, as may be desired, and having the cylinder B inserted in its lower end. Upon the lower end of the cylinder B is screwed a wrought-iron flange, C, which is fastened by bolts *a a* to a similar flange, C', screwed onto the pipe D, leather packing *e* being interposed between the flanges, as shown. The pipe D extends above the flange C' for a short dis-

tance, and has a cup, E, screwed upon it above the flange, the interior of said cup being flaring to receive the conical body G of the lower valve. *b* is the valve attached to said body, and said body is further provided with a bail, *d*, so that it can readily be lifted out and put in at pleasure. H represents the plunger, constructed in any of the known and usual ways, and connected by a rod, I, with the handle J.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The conical cup E, screwed on the upper end of the pipe D above the flange C', substantially as and for the purposes herein set forth.
2. The combination of the cylinder B, pipe D, flanges C C', conical cup E, and valve G *b*, all substantially as and for the purposes herein set forth.
3. The combination of the stock A, cylinder B, pipe D, flanges C C', conical cup E, valve G *b*, plunger H, rod I, and handle J, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of February, 1872.

PHILIP COPE.

Witnesses:

JOHN C. GARDNER,
ISAIAH OLCOTT.