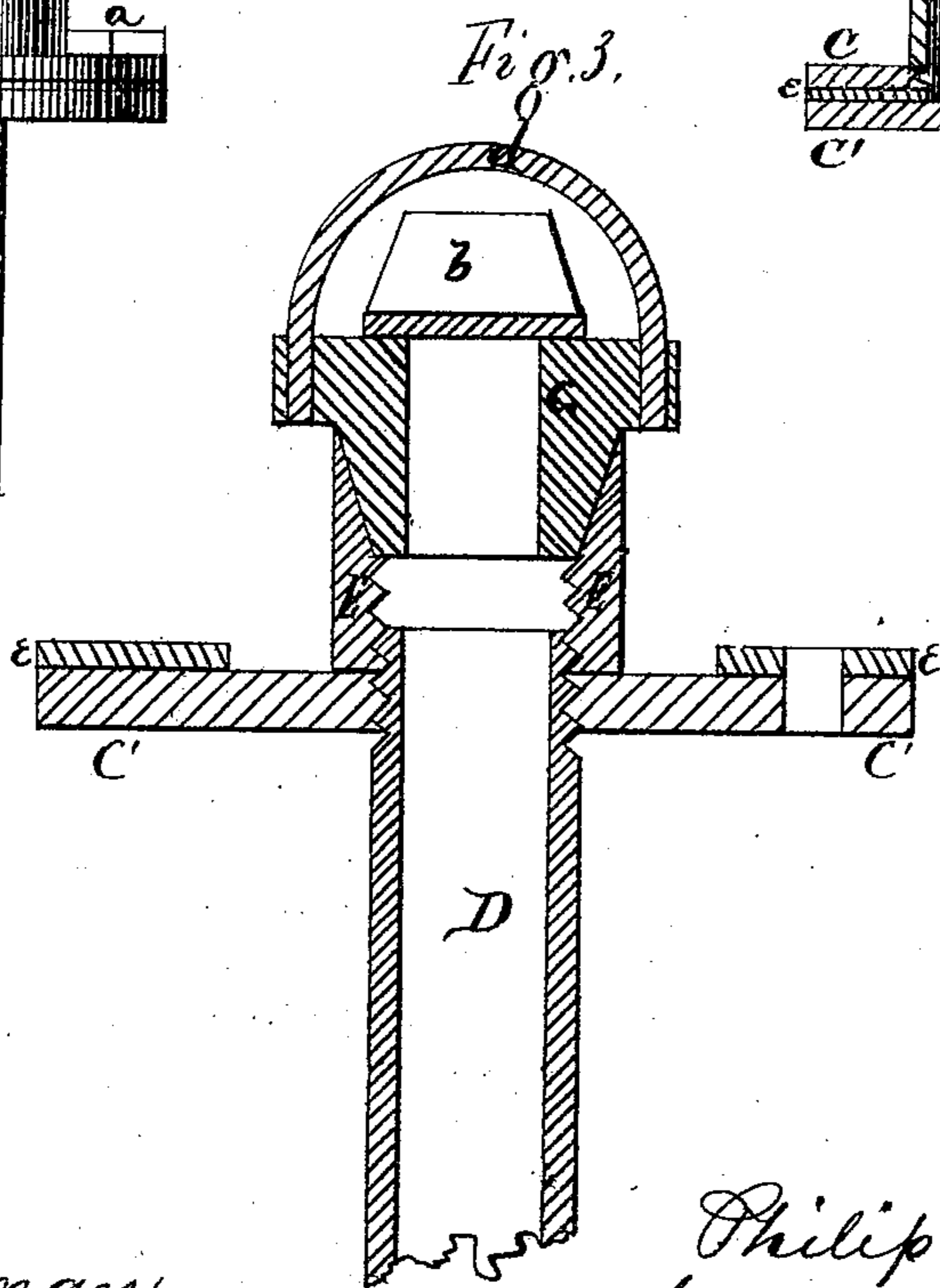
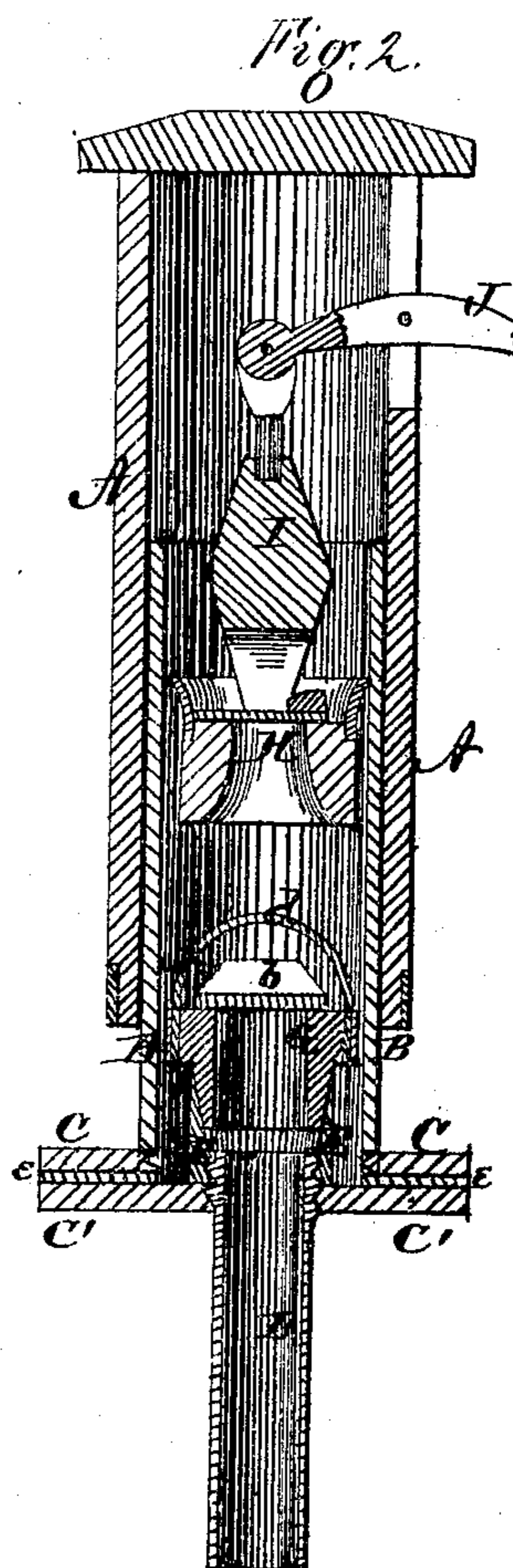
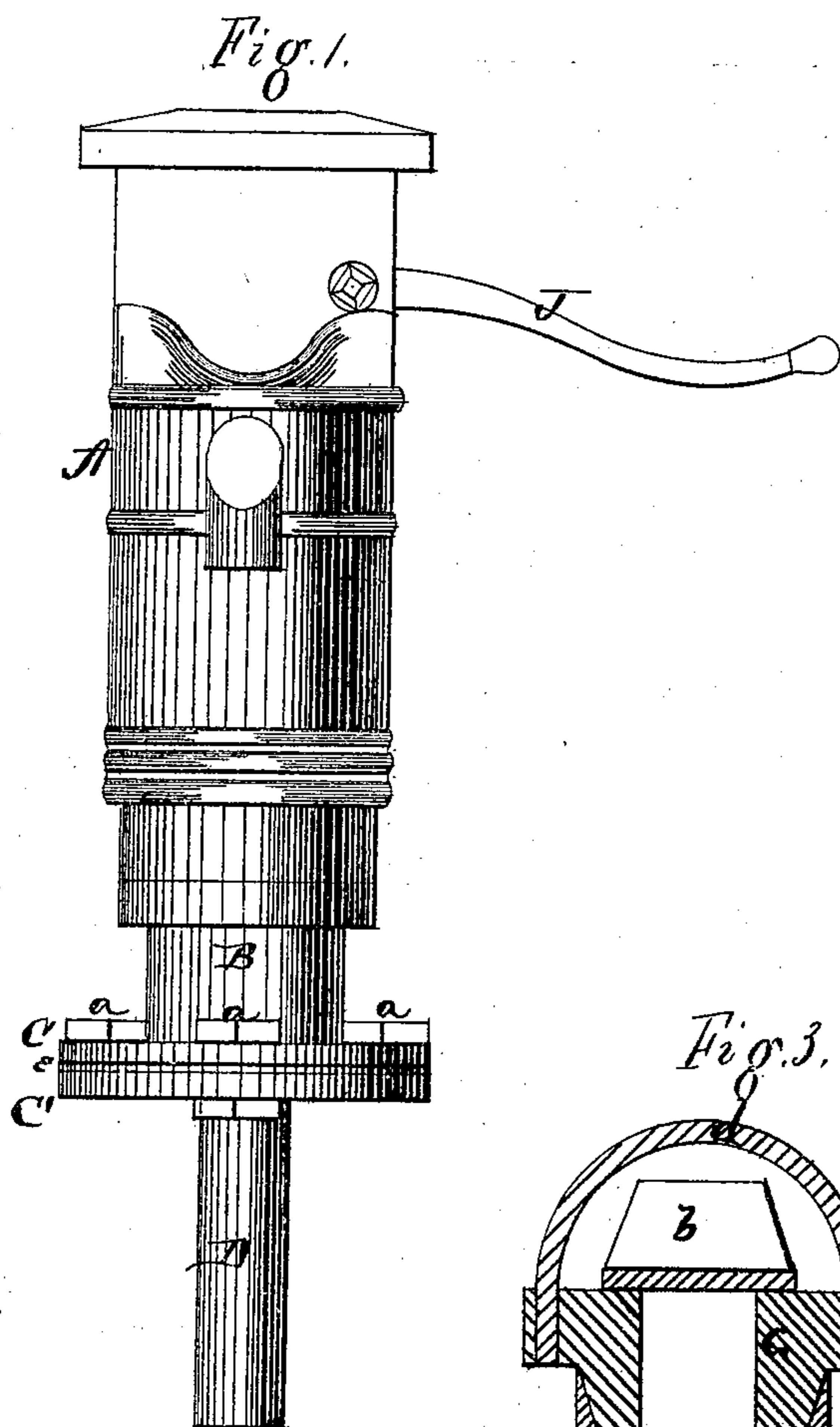


P. COPE.  
Improvement in Pumps.

No. 128,123.

Patented June 18, 1872.



Witnesses:

*W. Newman,*  
*C. A. Evers.*

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.