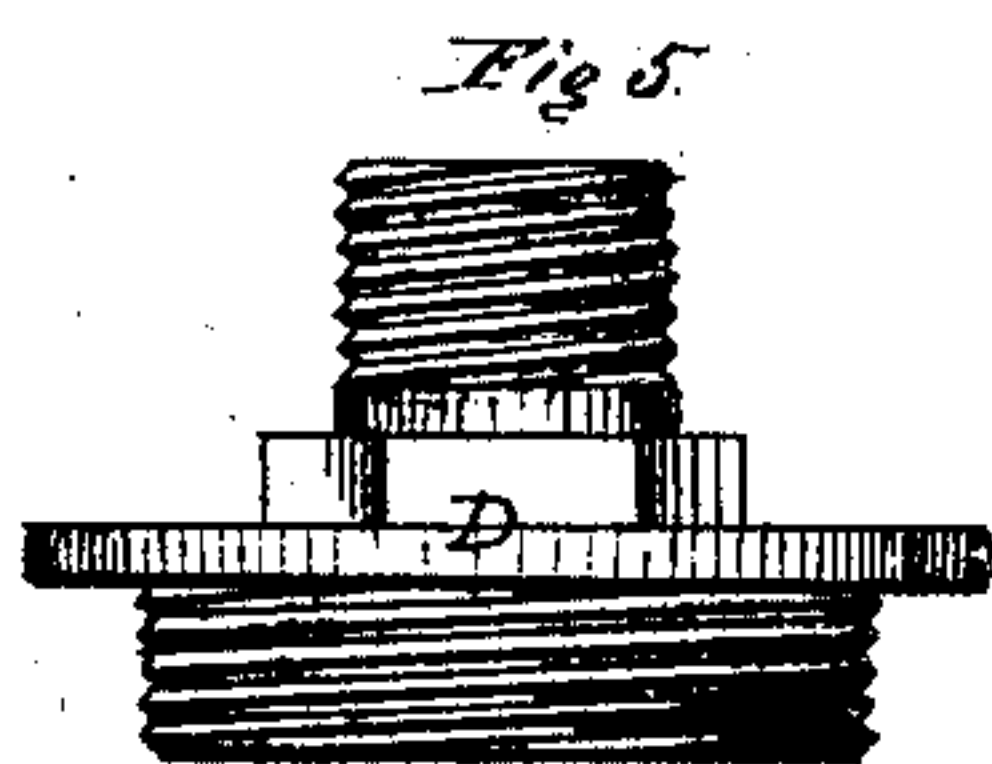
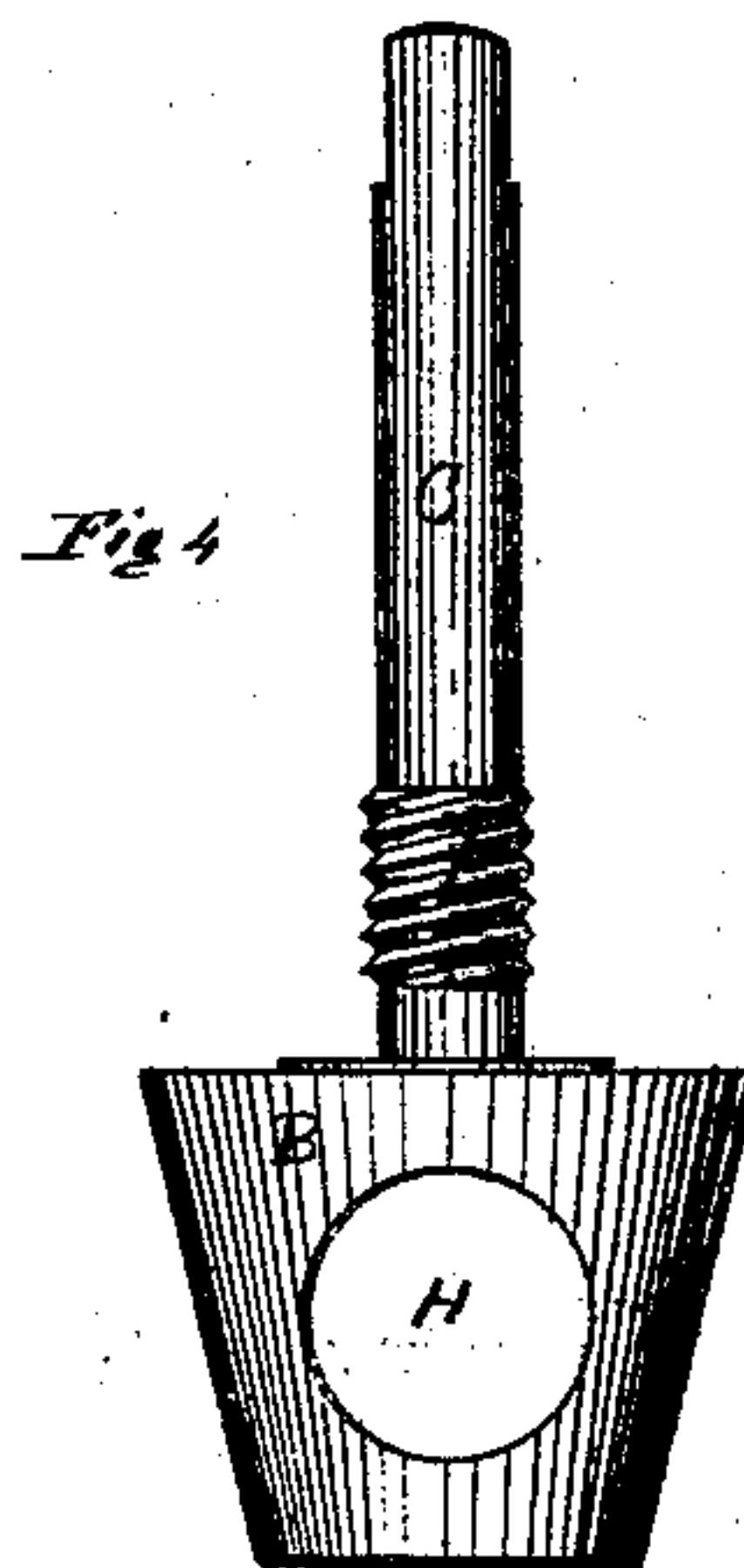
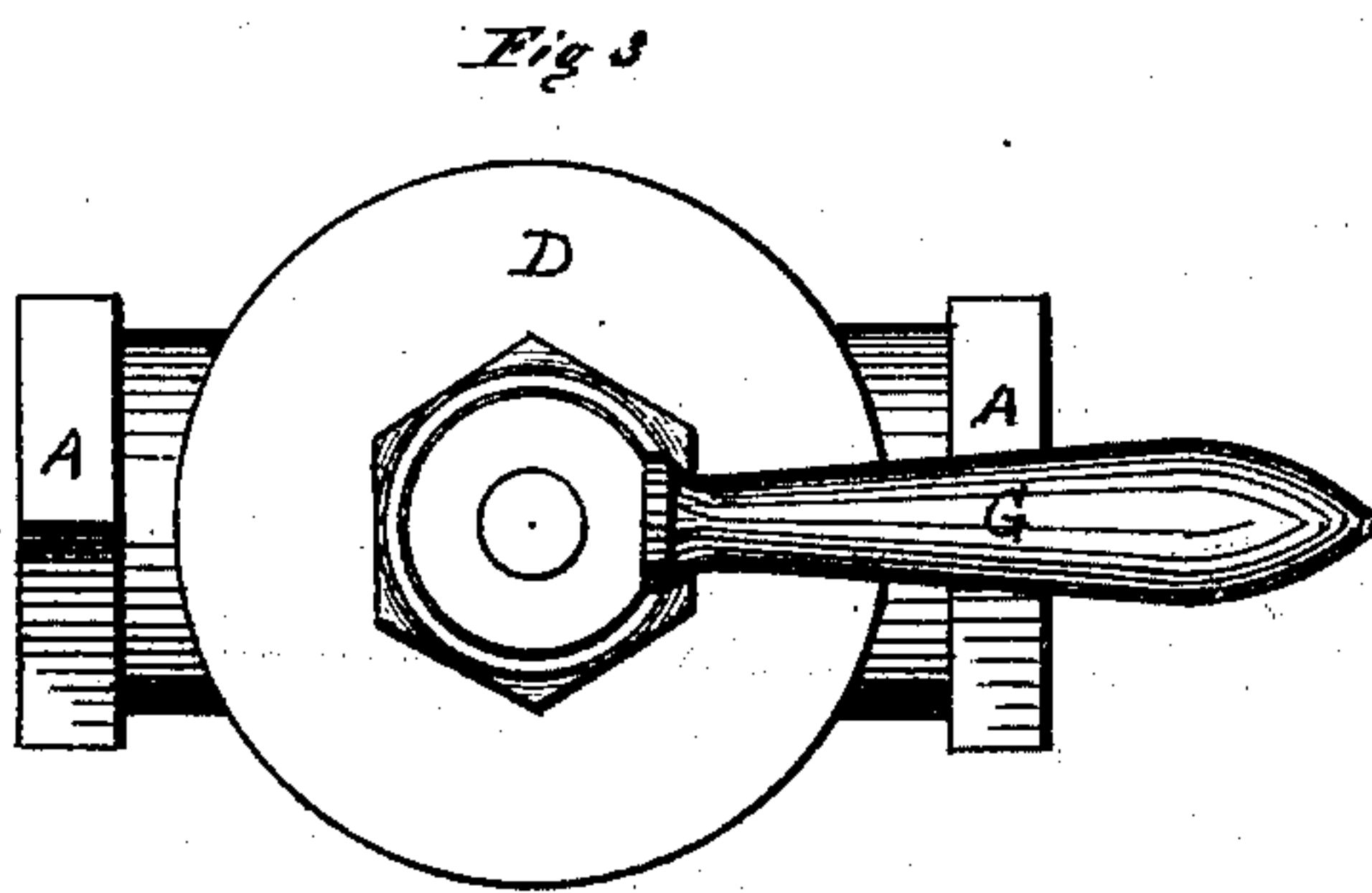
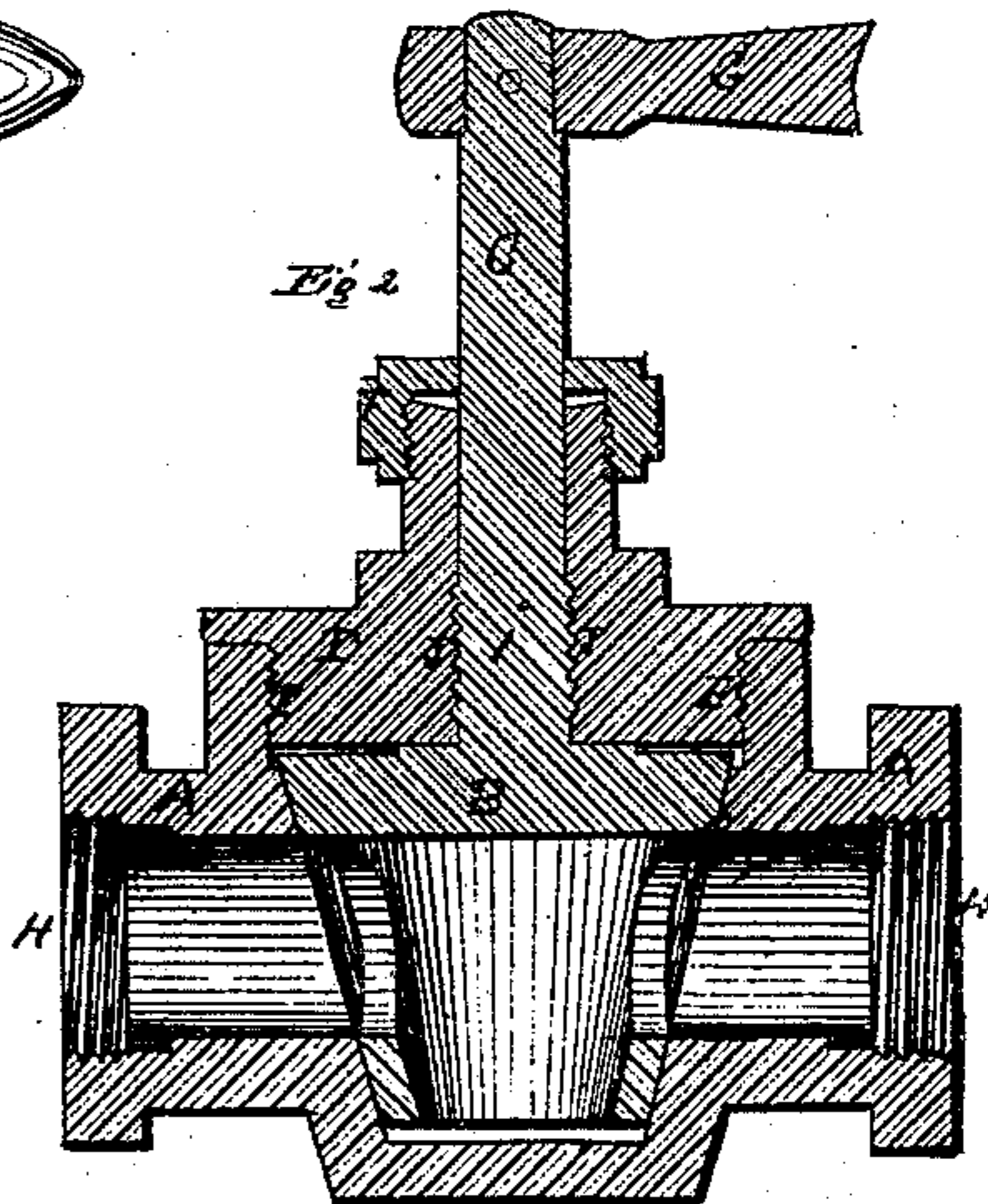
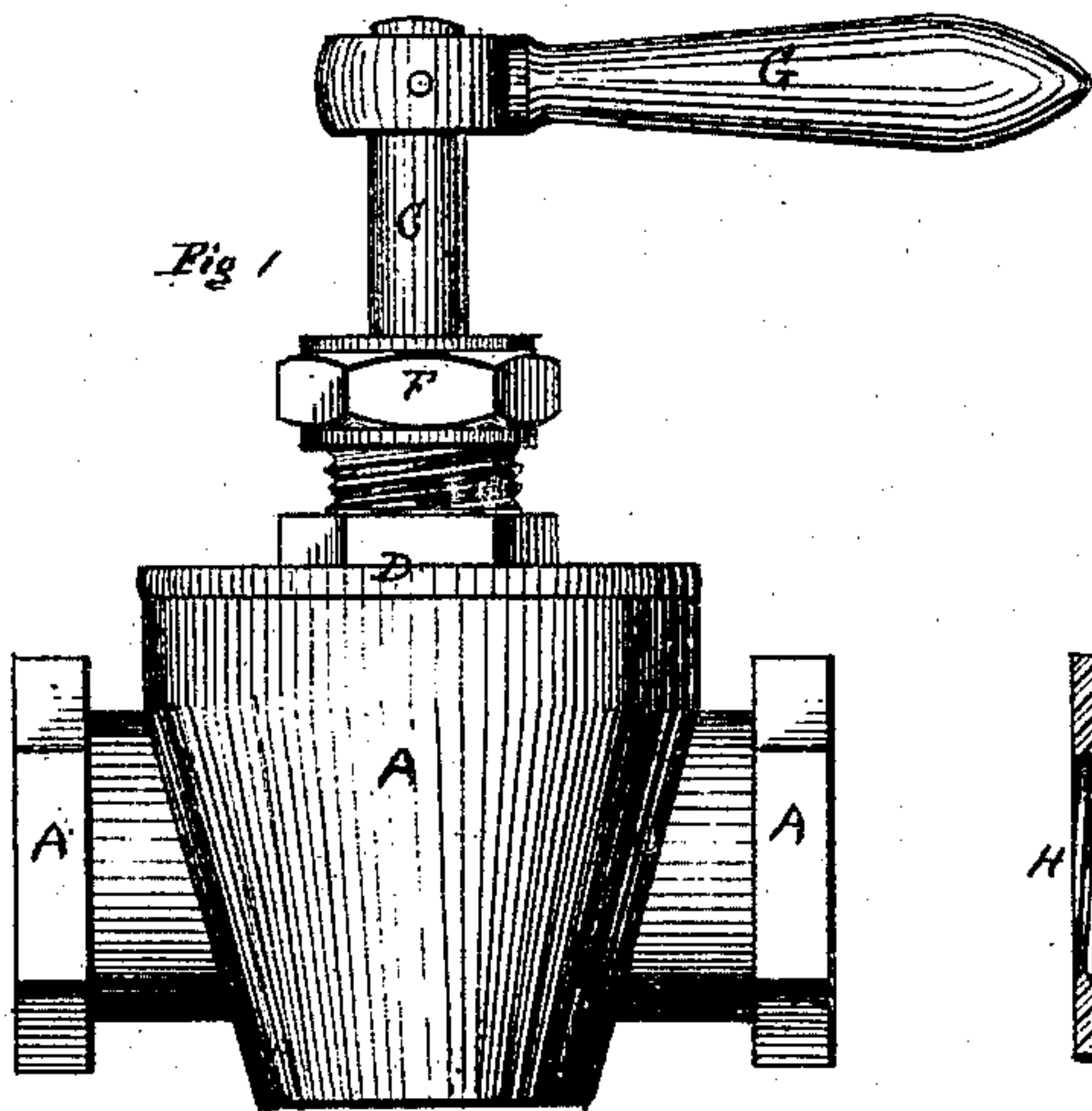


*J. Seeberger,*

*Stop Clock.*

*No. 99,714.*

*Patented Feb. 8, 1870.*



*witnesses*  
*Samuel Smith*  
*Henry Johnson*

*Inventor*  
*Joseph Seeberger*  
*Designer self*  
*Benjamin H. H. H. H.*  
*and*  
*George H. H. H.*  
*by his attorneys*  
*A. A. B. H. H. H.*

# United States Patent Office.

JOSEPH SEEBERGER, OF TROY, NEW YORK.

*Letters Patent No. 99,714, dated February 8, 1870.*

## IMPROVEMENT IN STOP-COCKS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, JOSEPH SEEBERGER, of Troy, in the county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Stop-Cocks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention has for its object to provide a stop-cock, in which the plug may be so adjusted as to always fit its seat, and at the same time be free from all friction when in operation, and consists in forming the plug and shell of a cone-shape, and made adjustable by means of screw-threads, as will be hereinafter more fully explained.

Figure 1 is a side view of my improved stop-cock;

Figure 2, a longitudinal vertical section of the same;

Figure 3, a top view;

Figure 4, an elevation of the plug; and

Figure 5, a side view of the cap.

To enable those skilled in the art to make and use my improved stop-cock, I will proceed to describe the construction and operation of the same, referring by letters to the drawings.

Similar letters denote like parts in the different views.

A is the shell, its centre being of a cone-shape.

B is the plug, of similar shape, and both having a central water-passage or hole, H.

The plug B has cast therewith a stem, C, provided with a screw-thread, I, a short distance above the top of plug.

D is the cap or cover which closes the shell A.

Said cover is secured to the shell by means of a screw cut upon the cover, which takes into a female screw upon the inside of the shell, as seen at E.

This cap D has a hole cut through it centrally, for the passage of the plug-stem C, and has a thread cut therein about half its extent, corresponding to and taking into the thread I.

The upper portion of the cap is smaller, and its outer

face is provided with a thread, which serves to secure the nut F, which forms the packing-box.

The upper edge of the cap is reamed out, and a seat is thus formed for the packing, which may be more or less compressed by screwing down the nut or box F.

To the top of the stem C is secured, by a pin or otherwise, a handle, G, by which the plug is turned.

The operation of my stop-cock is as follows, to wit:

The parts are put together as shown, the stem being so adjusted within the cap, that when the latter is screwed home, the turning of the plug across the passage H of the shell will just bring the plug tight against its seat, and it may be tightened, of course, by still further turning the handle. This result is attained by the threads I and J.

The reverse movement of the handle will open the water-passage, (the holes H of the plug and shell being in line,) and at the same time slightly lift the plug, thus relieving it from contact with its seat, and preventing the customary wear by friction, it being observed that the parts touch only when the water is cut off, and what little wear is thus occasioned may always be compensated for by the adjustment of the stem within the cap.

Having described the construction and operation of my improved stop-cock,

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

A stop-cock, with a stem to the plug, said stem being provided with a thread, and moving in a nut or cover, as described, the plug being of conical form, and having a water-way through it, and adjusted to be forced tightly against its seat when closed, and to move more perfectly free thereof at all other times, whereby nearly all friction and wear are avoided, and the plug and seat rendered adjustable, as hereinbefore described, for the purposes set forth.

In testimony whereof, I have hereunto set my hand, this      day of      , A. D. 1869.

Witnesses:      JOSEPH SEEBERGER.

O. H. ROGERS,

J. H. HUNTINGTON.