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R. Y. & D. C. BUERGER.

STOP COCK.

APPLICATION FILED JULY 30, 1904.

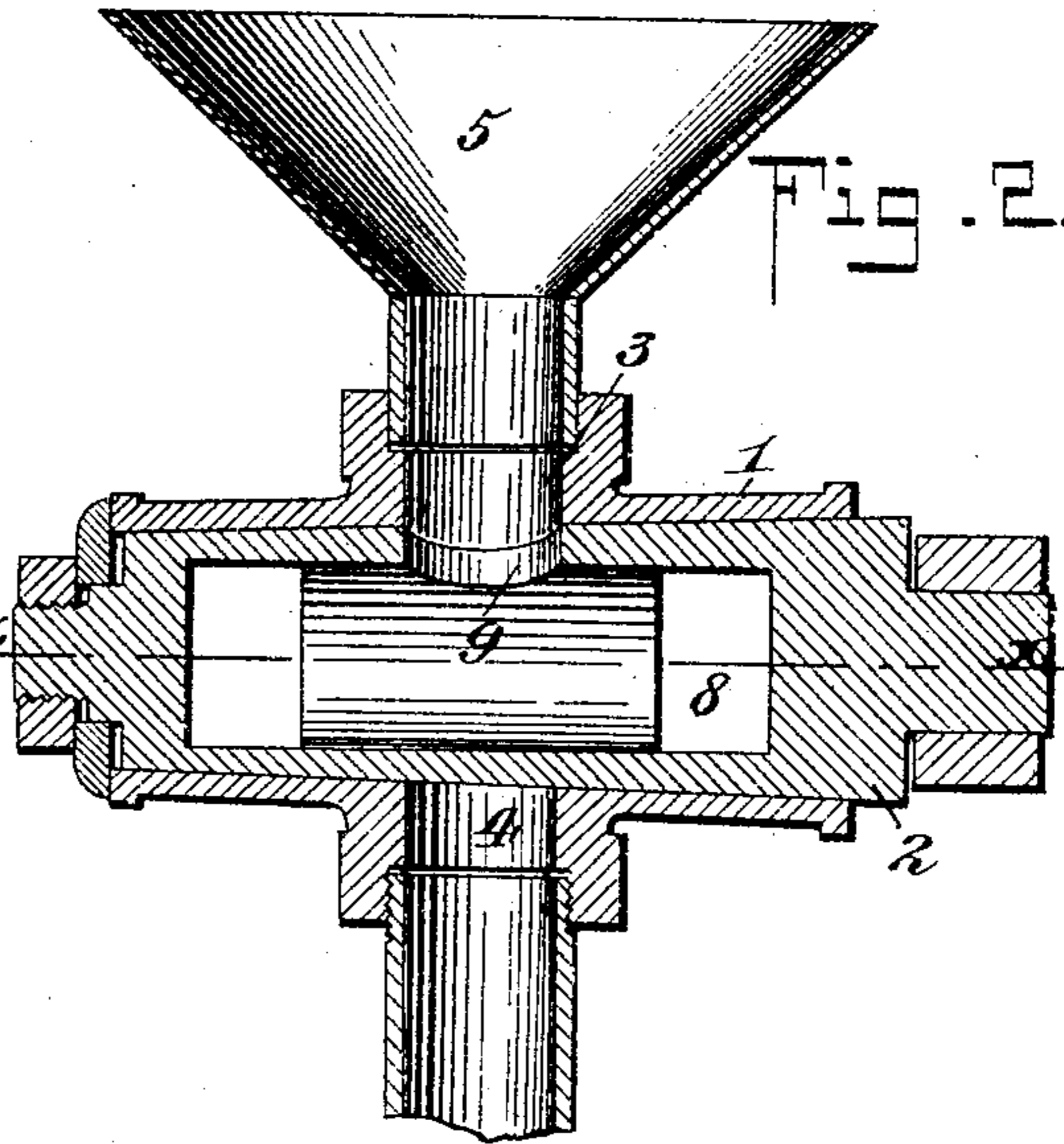
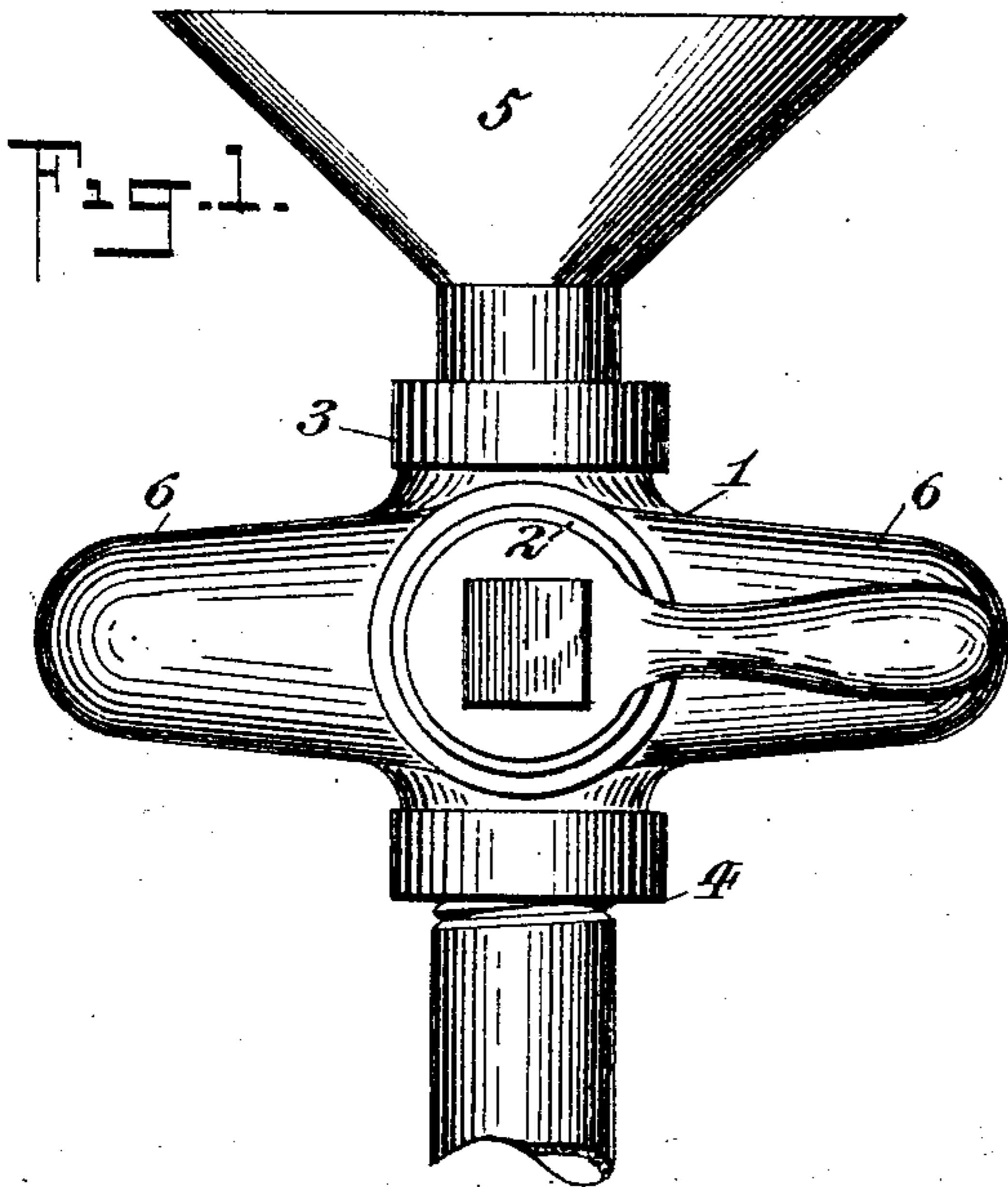
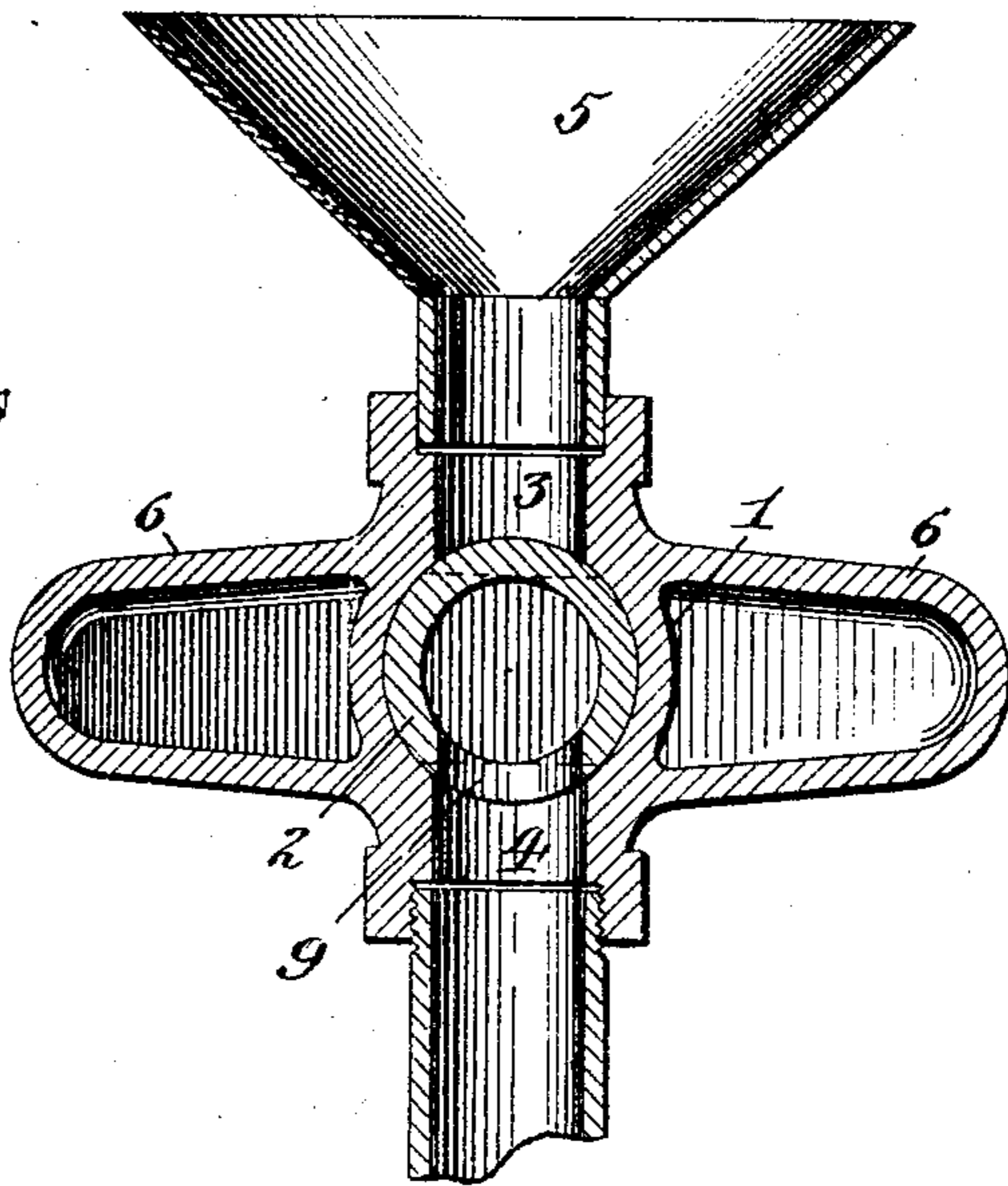
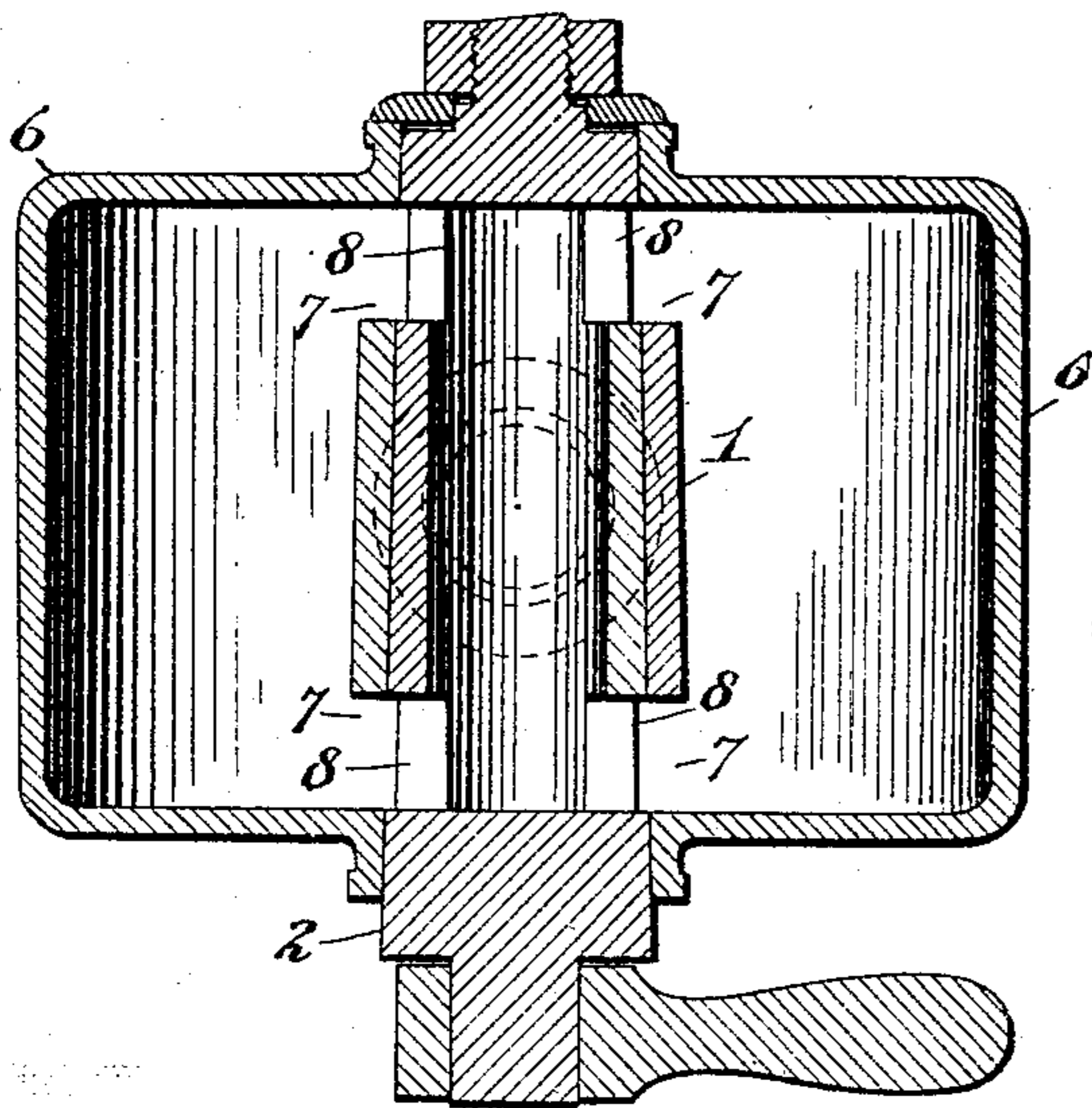


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

RUPPERT YOUNGBLUTH BUERGER AND DAVID CHARLES BUERGER, OF ALBANY, NEW YORK, ASSIGNORS OF ONE-HALF TO ARNOLD BOOTH AND WILLIAM F. MONTGOMERY, OF ALBANY, NEW YORK.

STOP-COCK.

SPECIFICATION forming part of Letters Patent No. 782,722, dated February 14, 1905.

Application filed July 30, 1904. Serial No. 218,787.

To all whom it may concern:

Be it known that we, RUPPERT YOUNGBLUTH BUERGER and DAVID CHARLES BUERGER, citizens of the United States, and residents of Albany, in the county of Albany and State of New York, have invented a new and Improved Stop-Cock, of which the following is a full, clear, and exact description.

This invention relates to improvements in stop-cocks particularly adapted for discharging a thawing medium, such as alcohol, into a frozen gas-pipe, the main object being to provide a stop-cock for this purpose of simple and novel construction, having no parts liable to get out of order, and so arranged as to hold a quantity of liquid ready for instant use and that under any condition or position will prevent the escape of gas.

We will describe a stop-cock embodying our invention and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a stop-cock embodying our invention. Fig. 2 is a sectional elevation thereof. Fig. 3 is a section on the line *x x* of Fig. 2, and Fig. 4 is a vertical section at right angles to Fig. 2.

Referring to the drawings, 1 designates a horizontal valve-casing in which a tubular plug-valve 2 is arranged to rotate. The casing is provided with an inlet 3 and an outlet 4. A funnel 5 may be attached to the inlet 3 either fixedly or removably. The valve-casing has lateral projections 6, which form chambers for containing liquid. These chambers communicate with the tubular valve through ports 7, formed in the casing, and through ports 8, formed in the valve, and the valve is also provided with a port 9, designed to be placed in communication with either the inlet or the outlet of the valve-casing.

It will be noted that the bottom walls of the

liquid-chambers incline downwardly toward the valve-casing, so that all the liquid contained in the chambers will pass through the ports into the valve. When it is desired to fill the chambers, the valve is to be rotated to bring the port 9 in a line with the inlet 3, as indicated in Fig. 2. At this time of course the outlet will be closed by the valve. The entering liquid will pass through the ports 7 and 8 into the chambers, and then the valve may be given a one-quarter turn to close the port 9 within the interior portion of the casing 1.

When it is desired to discharge alcohol or other liquid into a pipe or main, the valve is to be turned so that the port 9 communicates with the outlet 4, as indicated in Fig. 4. At this time the inlet will be closed by the valve, so that there will be no possibility of gas escaping.

It will be seen that a stop-cock embodying our invention will be comparatively cheap to manufacture and that it may be readily attached to a pipe or tube.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

An attachment for a gas-pipe, comprising a valve-casing having lateral projections forming liquid-chambers, the said casing having port communication at its ends with the chambers and also having inlet and outlet ports, and a tubular plug-valve in the casing having ports for communicating with the ports in the casing, and also having a port for communicating with either the inlet or the outlet of the casing.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

RUPPERT YOUNGBLUTH BUERGER.

DAVID CHARLES BUERGER.

Witnesses:

ARNOLD BOOTH,

WM. F. MONTGOMERY.