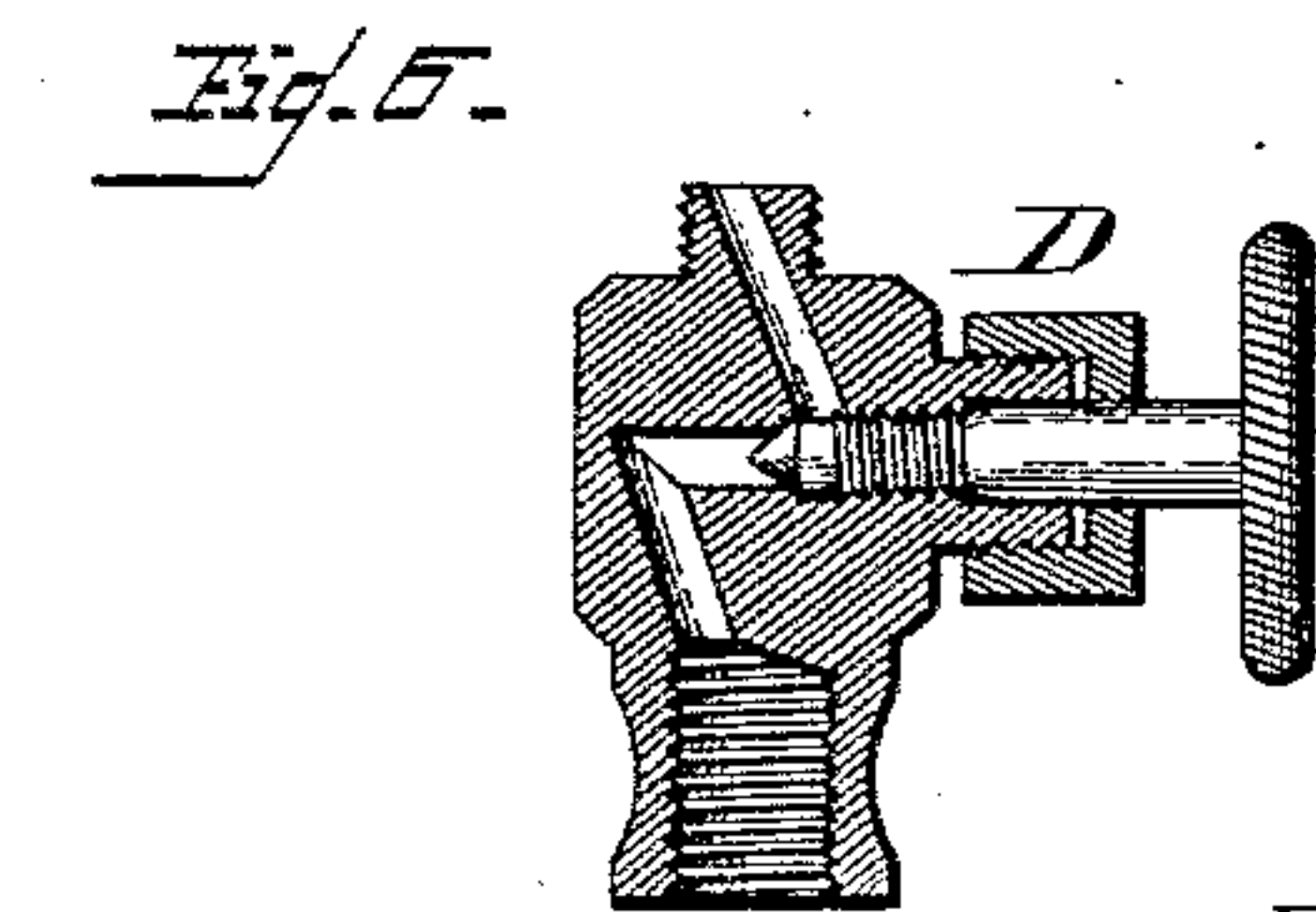
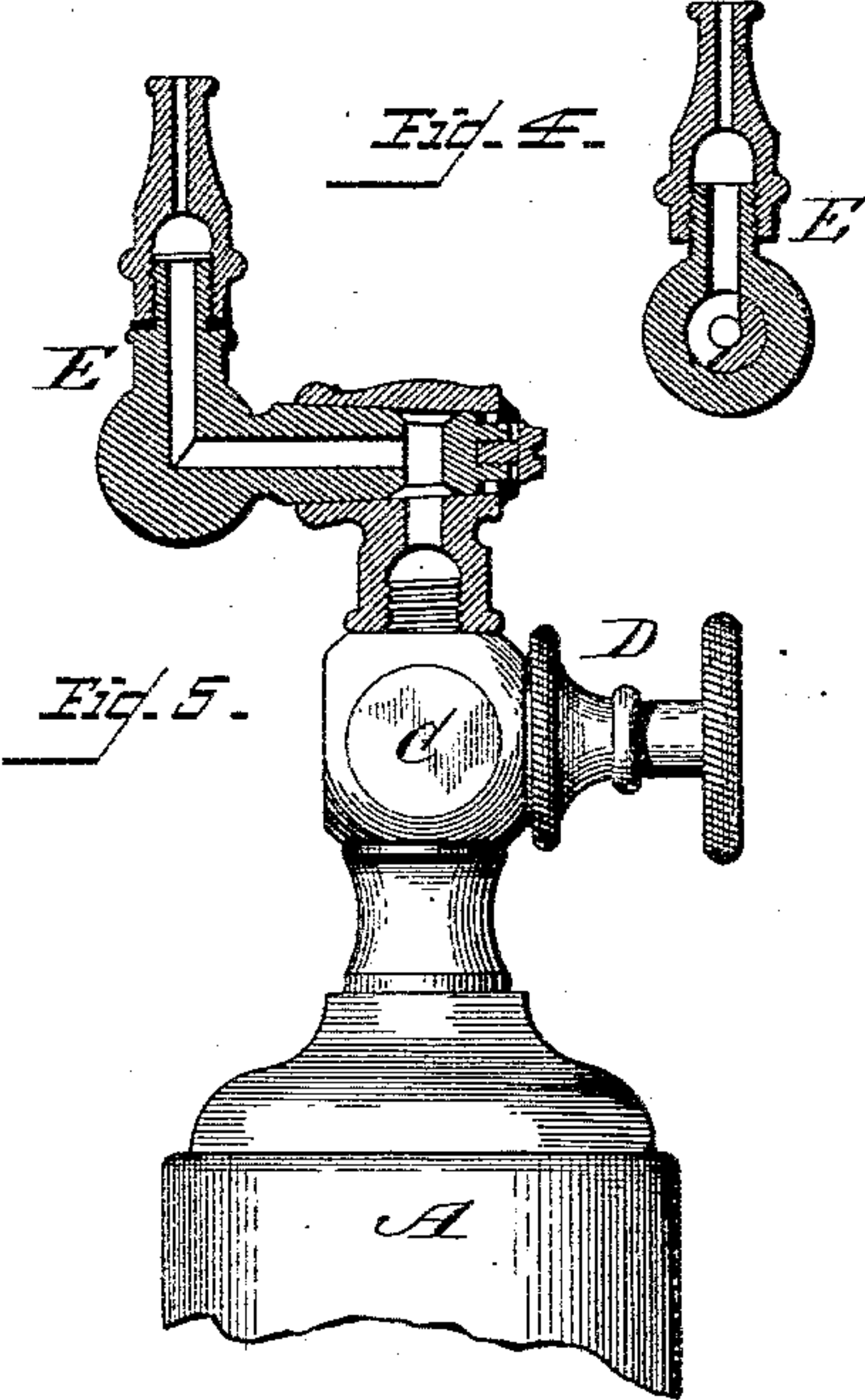
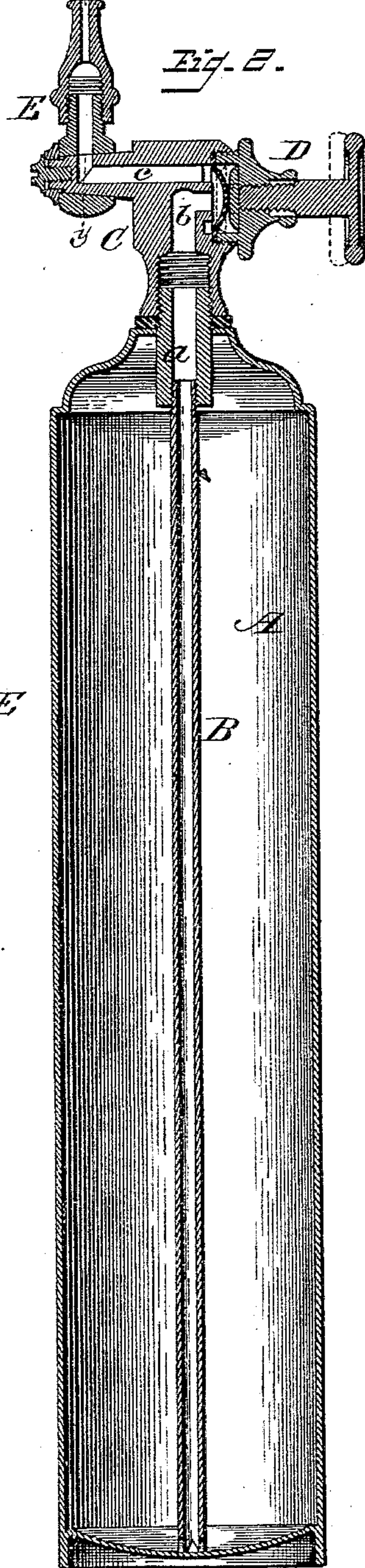
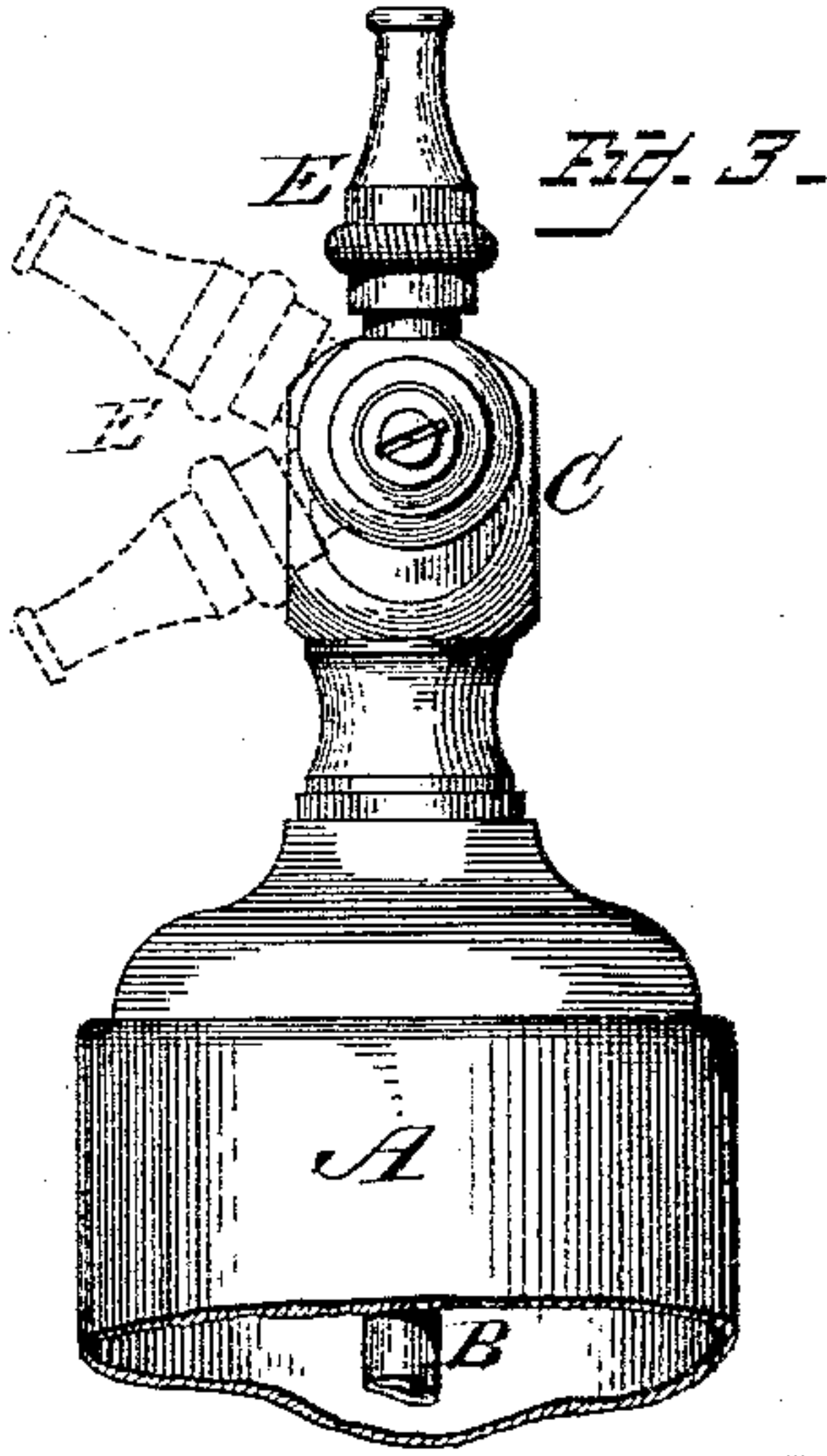
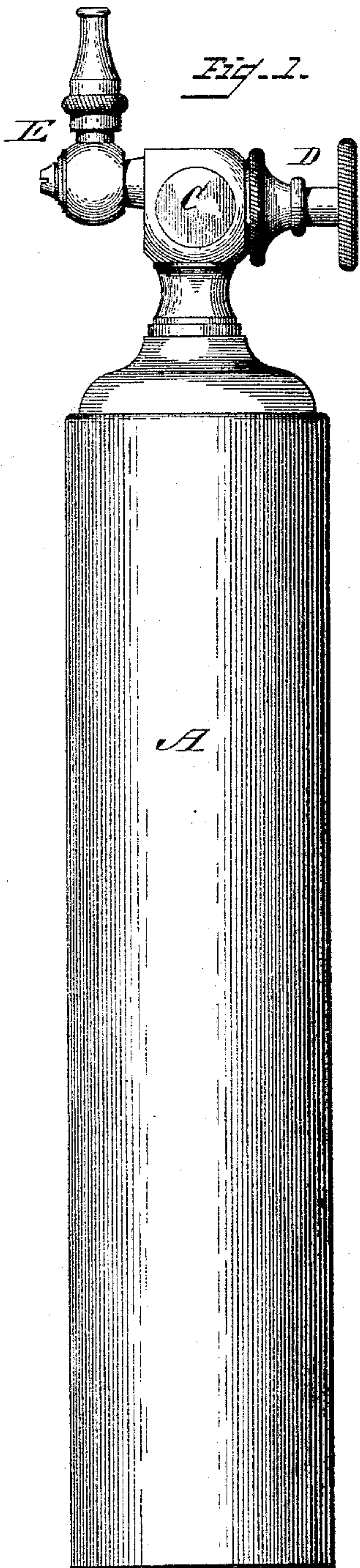


(No Model.)

J. M. PALMER.
FIRE EXTINGUISHER.

No. 359,939.

Patented Mar. 22, 1887.



Witnesses
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Inventor
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UNITED STATES PATENT OFFICE.

JAMES M. PALMER, OF BOSTON, MASSACHUSETTS.

FIRE-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 359,939, dated March 22, 1887.

Application filed April 30, 1886. Serial No. 200,693. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. PALMER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Fire-Extinguishers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side elevation of one form of chemical fire-extinguisher, showing the application of my invention thereto; Fig. 2, a vertical section thereof; Fig. 3, a detail view of the upper end of extinguisher, showing the discharge-nozzle in two different positions in dotted lines; Fig. 4, a sectional view of the faucet, taken on line *yy* of Fig. 2; Fig. 5, a detail sectional view showing a modification of the faucet, and Fig. 6 a similar view showing a modification of the stop-cock.

The present invention has relation to that class of fire extinguishers wherein the extinguishing-liquid is retained within a closed vessel, and is delivered therefrom under pressure onto the fire.

The object of the invention is to provide means whereby the direction of the stream of extinguishing-liquid can be controlled without the use or employment of the usual rubber hose or pipe; and it consists in connecting the discharge-nozzle so that it may be turned to the right or left at any desired degree to properly direct the stream onto the fire, substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings I have shown one of many forms of chemical fire-extinguishers to which my invention is applicable, A indicating the storing-vessel of convenient portable size, and constructed of metal of sufficient strength to withstand the pressure therein.

The vessel is provided with the usual siphon-

tube, B, connected at its upper end to a threaded neck, *a*, which neck is screwed into a head, C. This head C, as shown in Figs. 2 and 4, is provided with two passages, *b c*, which are closed by a stop-cock, D, of any well-known and desirable construction. When the cock D is open, as shown in Fig. 2, communication is made between the passages *b c*, and the extinguishing-liquid, passing through the tube B under pressure, enters the aforesaid passages and escapes through the nozzle E. The stream of the extinguishing-liquid is directed at any required angle by turning the nozzle to the right or left at the proper distance, thereby dispensing with the ordinary rubber hose or pipe now in common use.

The nozzle E, as well as the stop-cock D, may be variously modified, and in Figs. 5 and 6 I have shown one of such modifications.

By means of the revolving nozzle the stream cannot only be directed aright, but the stream stopped instantly, if needed, by simply turning the nozzle sufficiently far around in one direction, which closes the passage therein, without depending on the stop-cock.

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

The combination, with the vessel A, the cap C, having passages *b c*, and the siphon-tube connected to said cap, of the cock or valve D, controlling said passages, and a revolving nozzle, E, connected to said passages in various positions of the nozzle, whereby the direction of the stream may be changed at will, as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES M. PALMER.

Witnesses:

CAROLINE F. PALMER,
CARRIE E. PALMER.