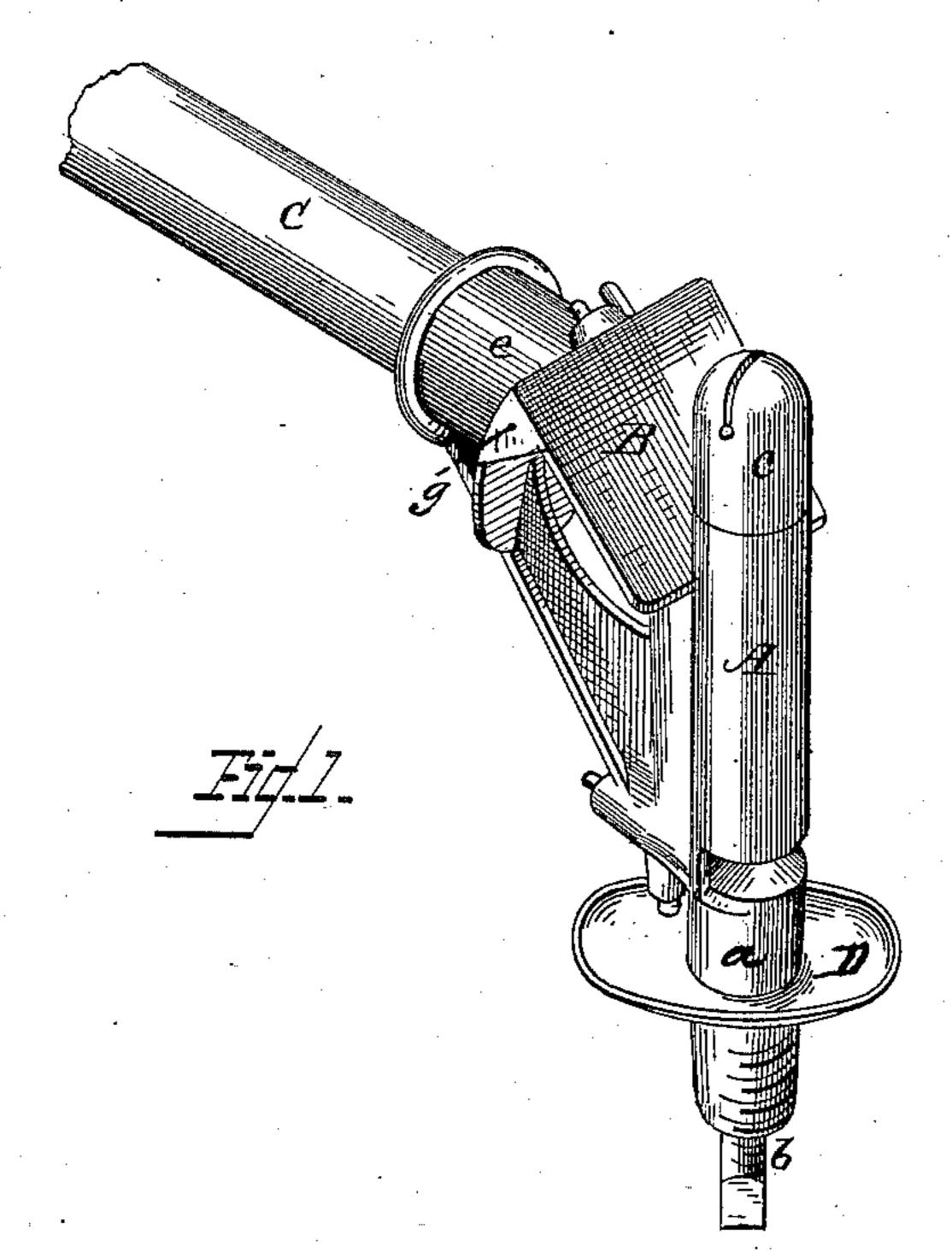
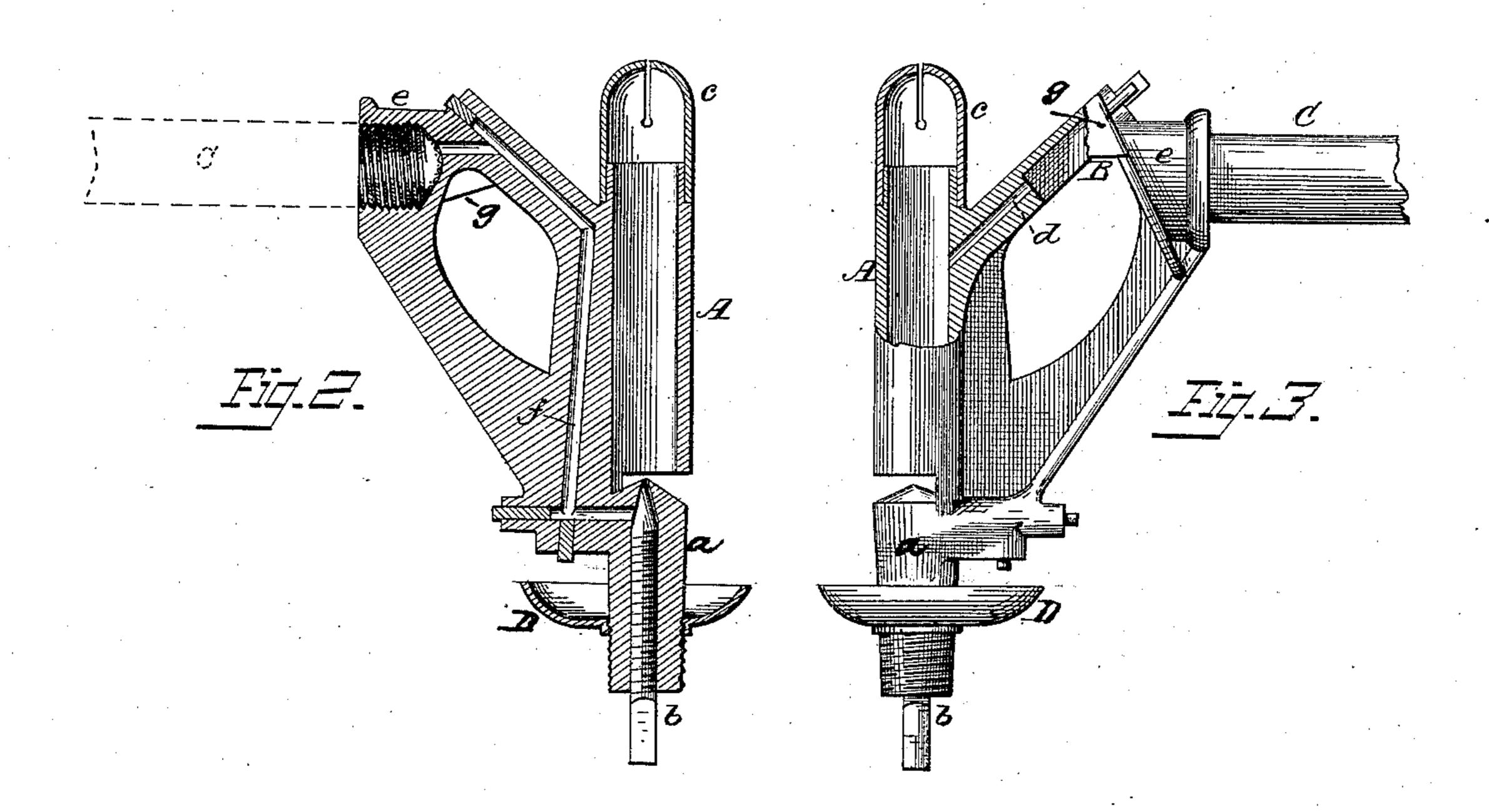
C. V. BEST.

VAPOR BURNER.

No. 283,956.

Patented Aug. 28, 1883.





WITNESSES

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CLEARMONT V. BEST, OF CANTON, OHIO.

VAPOR-BURNER.

SPECIFICATION forming part of Letters Patent No. 283,956, dated August 28, 1883.

Application filed May 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, CLEARMONT V. BEST, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Vapor-Burners; 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 the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of a vapor-burner constructed in accordance with my invention; Fig. 2, a sectional view of the same; and Fig. 3, an elevation of the reverse side of Fig. 2, partly in section.

The present invention has relation to certain new and useful improvements in vaporburners; and the object thereof is to provide a sub-jet in connection with an angular heating-plate, whereby a more perfect vaporization is obtained, with a greater intensity of heat, thus rendering the burner more effective in its purpose and the flame of increased brilliancy, thereby producing a burner of superior illuminating power with economy of the gasoline or other burning-fluid. These objects I attain by the construction of the burner shown in the drawings, and hereinafter described, and specifically pointed out in the claims.

In the accompanying drawings, A represents the burner-tube, which constitutes the mixing-chamber, and on a line directly under the lower end of said tube is an extension, a, provided with a central screw-threaded hole into which is inserted the usual needle-point, b, the tube at its upper end having fitted there on the burner-tip c. The tube A, near its top, communicates with an inclined passage, d, extending outward at an acute angle to the burner-tube and in a direction toward the inclined or angular heating-plate B, thus forming a subjet near the top of the tube or mixing-chamber, which impinges against the heating-plate directly back of the chamber e, thereby pro-

ducing increased heat, the jet extending over the entire inner surface of the plate. The chamber e may be provided with a piece of wire-gauze, and also supplied with cotton 50 wicking, the chamber having interior screwthreads for connecting thereto the screwthreaded end of a supply-pipe, C. The heating-jet as it issues from the passage d is carried above the mixing-chamber or tube A to 55 about the level of the burner-tip c in an angular direction, and then is deflected back far enough so as not to interfere with the illuminating-jet from the heat of the sub-jet. A passage, f, extends under the heating-plate B, 60 thence downwardly along the mixing-chamber or tube A, and afterward horizontally to the needle-point b. The extension a at its lower end is screw-threaded for attaching thereto the usual plate or cup, D. The heat- 65 ing-plate B has corner side extensions, g, to confine the flame or heating-jet and prevent it from coming above the angular heatingplate at the corners.

Having now fully described my invention, 70 what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the angular heating-plate B, of the inclined passage d, communicating with the mixing-chamber, near the 75 upper end, to form a sub-jet, substantially as and for the purpose set forth.

2. The angular heating-plate B, provided with corner side extensions, g, substantially as and for the purpose specified.

3. The angular heating-plate B and inclined passage d, in combination with the passage f, having its upper portion extending along the under side of said angular heating-plate, substantially as shown and described.

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

CLEARMONT V. BEST.

80

Witnesses:

AUSTIN LYNCH, EDWARD J. SCHAUER.