

(No Model.)

H. C. PAYNE.

WASH BOILER.

No. 354,212.

Patented Dec. 14, 1886.

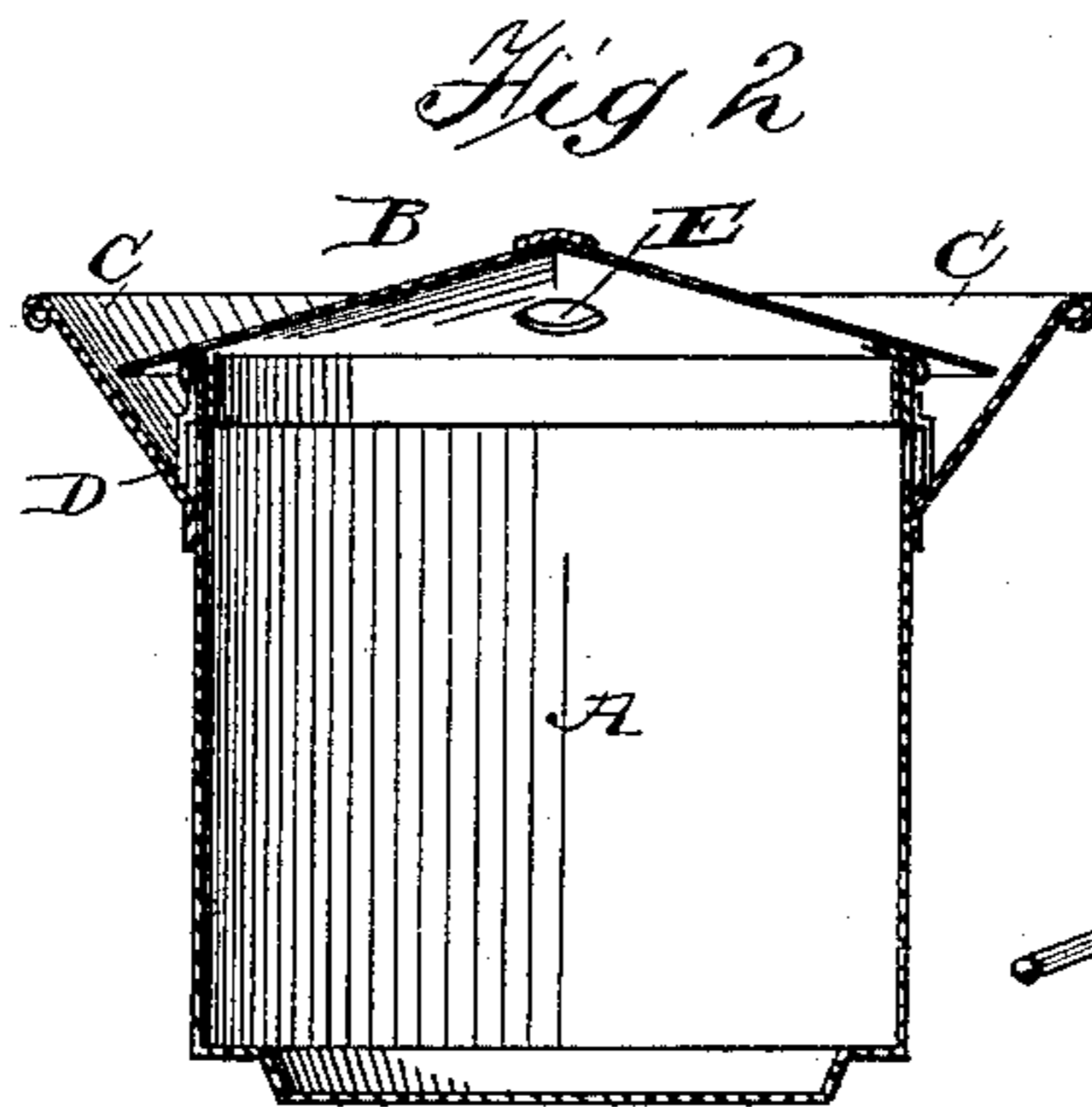
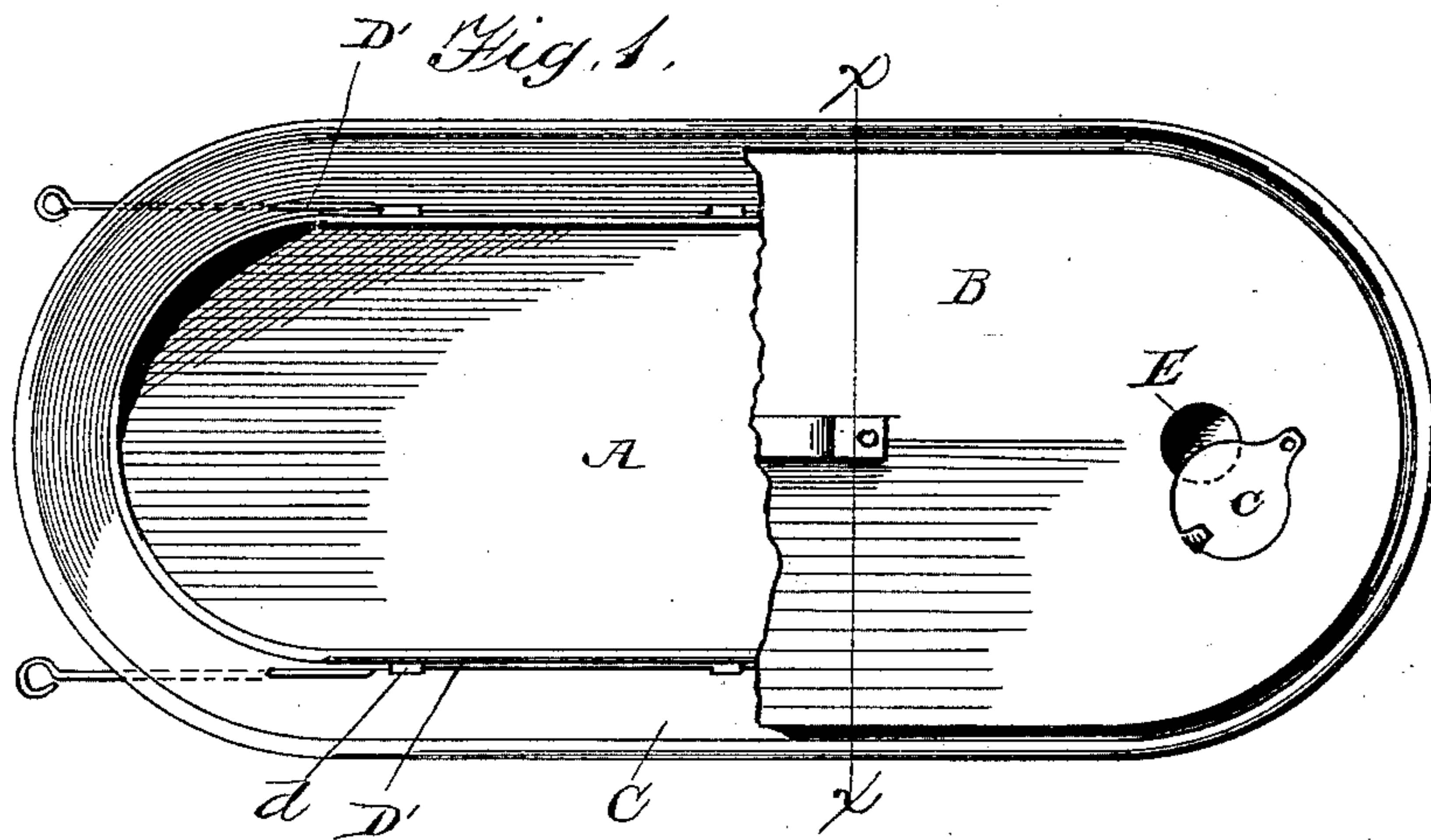


Fig. 5.

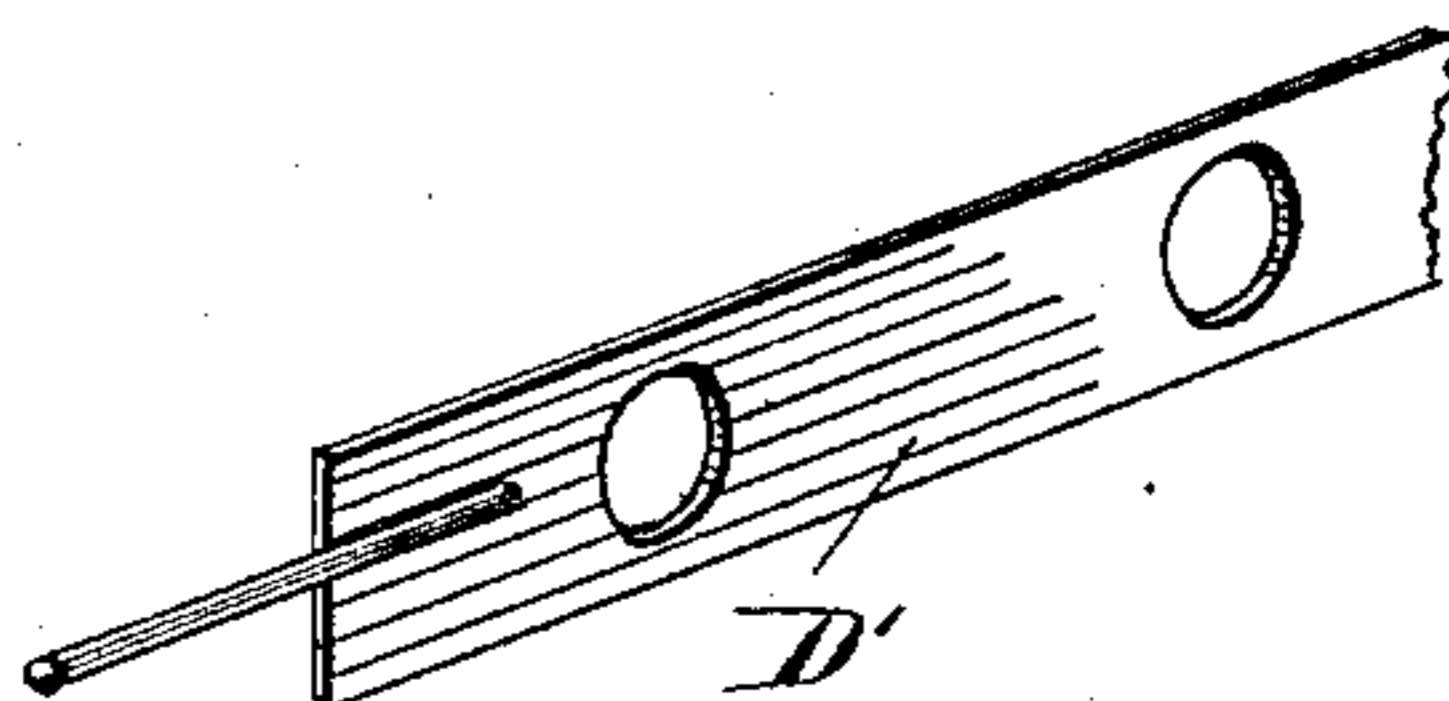


Fig. 3.

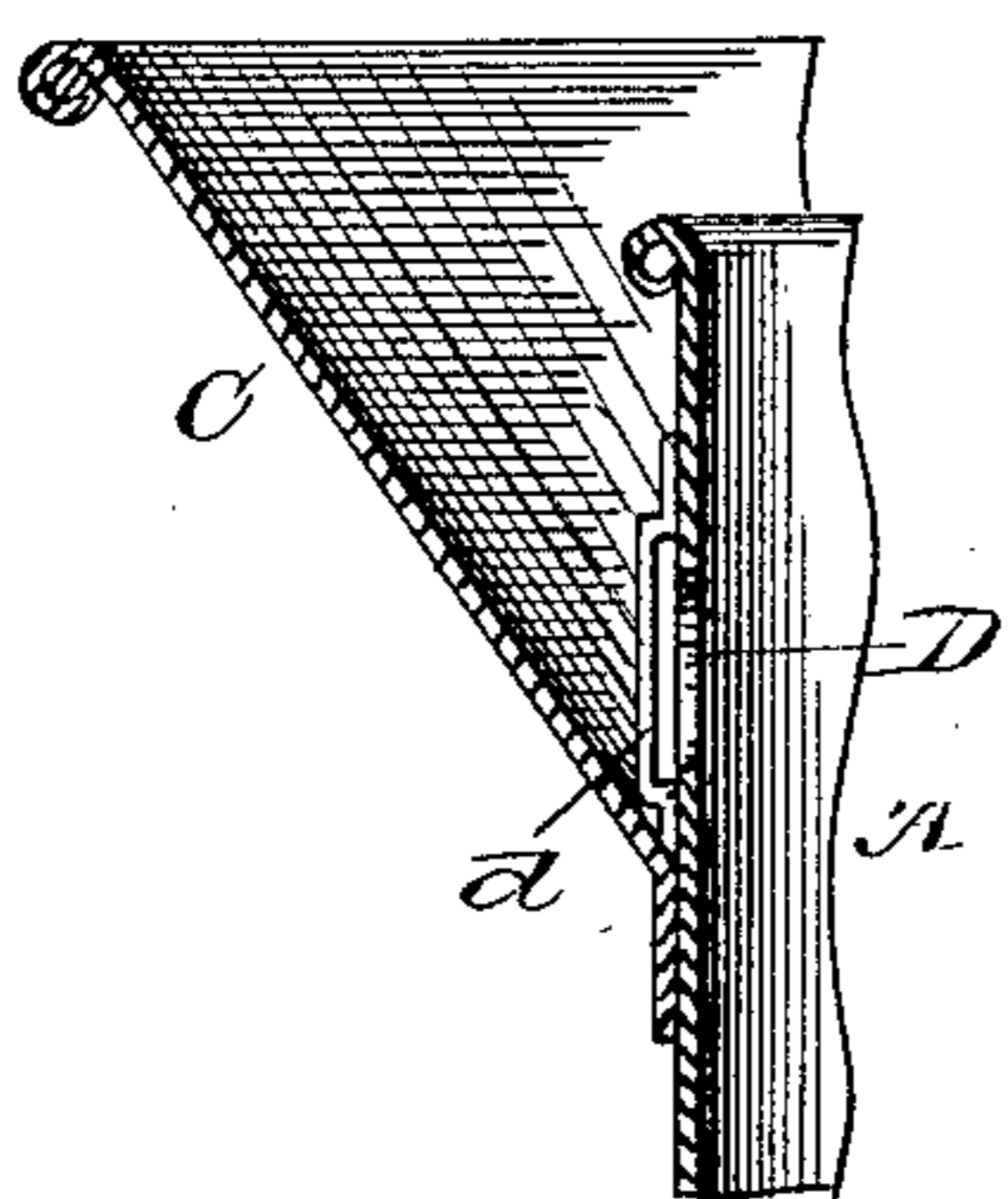
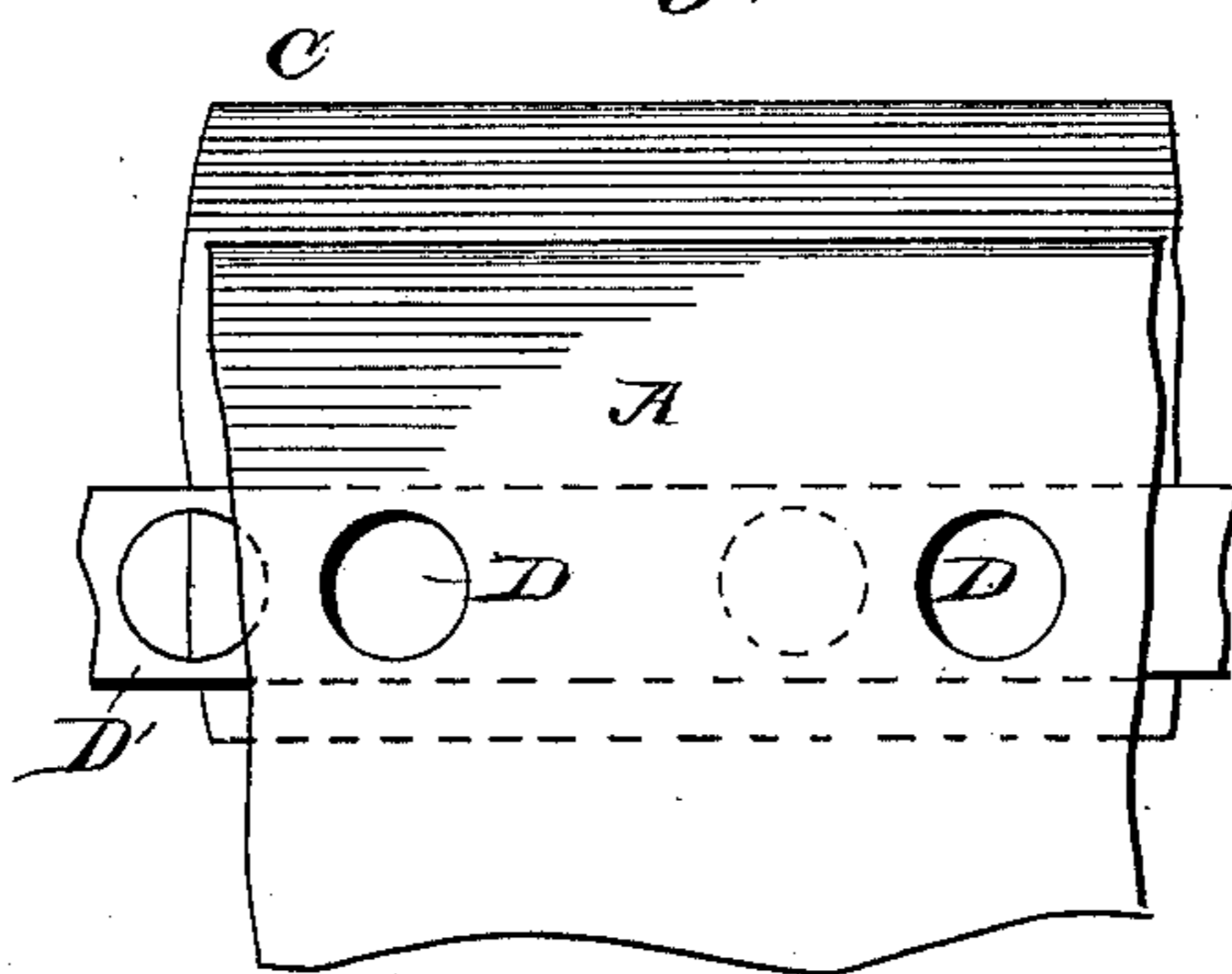


Fig. 4.



attest:

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UNITED STATES PATENT OFFICE.

HENRY C. PAYNE, OF WEBSTER CITY, IOWA.

WASH-BOILER.

SPECIFICATION forming part of Letters Patent No. 354,212, dated December 14, 1886.

Application filed January 30, 1886. Serial No. 190,279. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. PAYNE, a citizen of the United States, residing at Webster City, in the county of Hamilton and State of Iowa, have invented certain new and useful Improvements in Wash-Boilers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to wash-boilers, and the novelty consists in the construction and arrangement of parts, substantially as and for the purpose set forth, and pointed out in the claim.

The invention is illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents in top plan view my improved wash-boiler. Fig. 2 is a sectional view taken on the line *x x* of Fig. 1. Fig. 3 is a detail sectional view through one side of the boiler, at the upper edge thereof. Fig. 4 is a detail elevation of a portion of one side of the boiler, looking from inside; and Fig. 5 is a perspective view of the slide.

Referring to the drawings, in which similar letters of reference denote similar parts, A designates a wash-boiler having a cover, B, the edges of which project beyond the sides thereof to a point nearly in contact with a flange, C which extends upwardly from the outer wall of the boiler to an elevation preferably higher than the wall of the boiler proper.

D designates ports formed in the sides of the boiler above the lower edge of the flange C, and D' slides, also provided with ports and rods which project through the flange, by means of which the ports of the slides are made to wholly or partly register with those in the side of the boiler. These slides are guided and supported by keepers *d*, which are secured to the side of the boiler.

E designates ports formed in the cover B, which are provided with sliding covers *e*.

The operation of my device is as follows: After being filled with water, &c., and placed upon the stove the slides are pushed in, thereby closing the ports in the side of the boiler. The port in the top of the cover is also closed by the lid *e*, whereby the radiation of heat from the interior of the boiler and the entry of currents of cold air into the space under the cover is avoided. When the water boils and overflows, the ports in the sides of the boiler and the cover may be opened. Usually the ports in the cover can be kept closed, allowing the steam and water of condensation to escape through the side port, which in rising strike the overhanging edge of the cover, which acts as a surface-condenser. The water of condensation and the overflow of water is kept in the chamber formed by said cover, the boiler, and flange until it flows back into the boiler.

Modifications in the details of construction may be made without departing from the spirit or sacrificing the advantages of a rod or handle to operate the same, substantially as described.

I claim—

In a wash-boiler, the combination of the following elements: the boiler A, having ports D, cover B, having an overhanging surface-condenser, flange C, a slide, D', and keepers *d*, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY C. PAYNE.

Witnesses:

A. H. COUNTS,
W. J. FELT.