

No. 685,763.

Patented Nov. 5, 1901.

W. C. HOMAN.
MANTLE SUPPORT.

(Application filed Aug. 8, 1901.)

(No Model.)

Fig. 1.

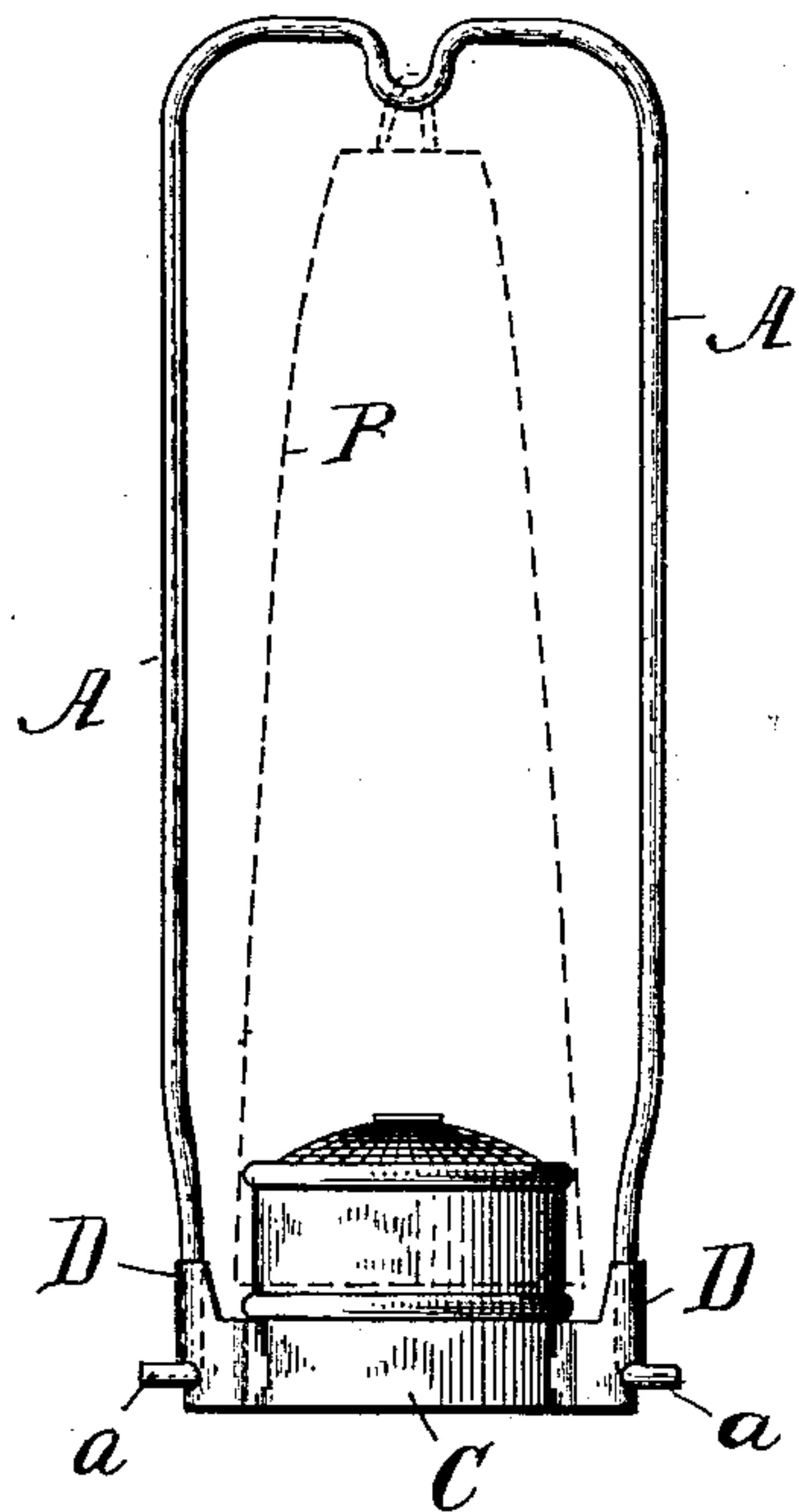


Fig. 2.

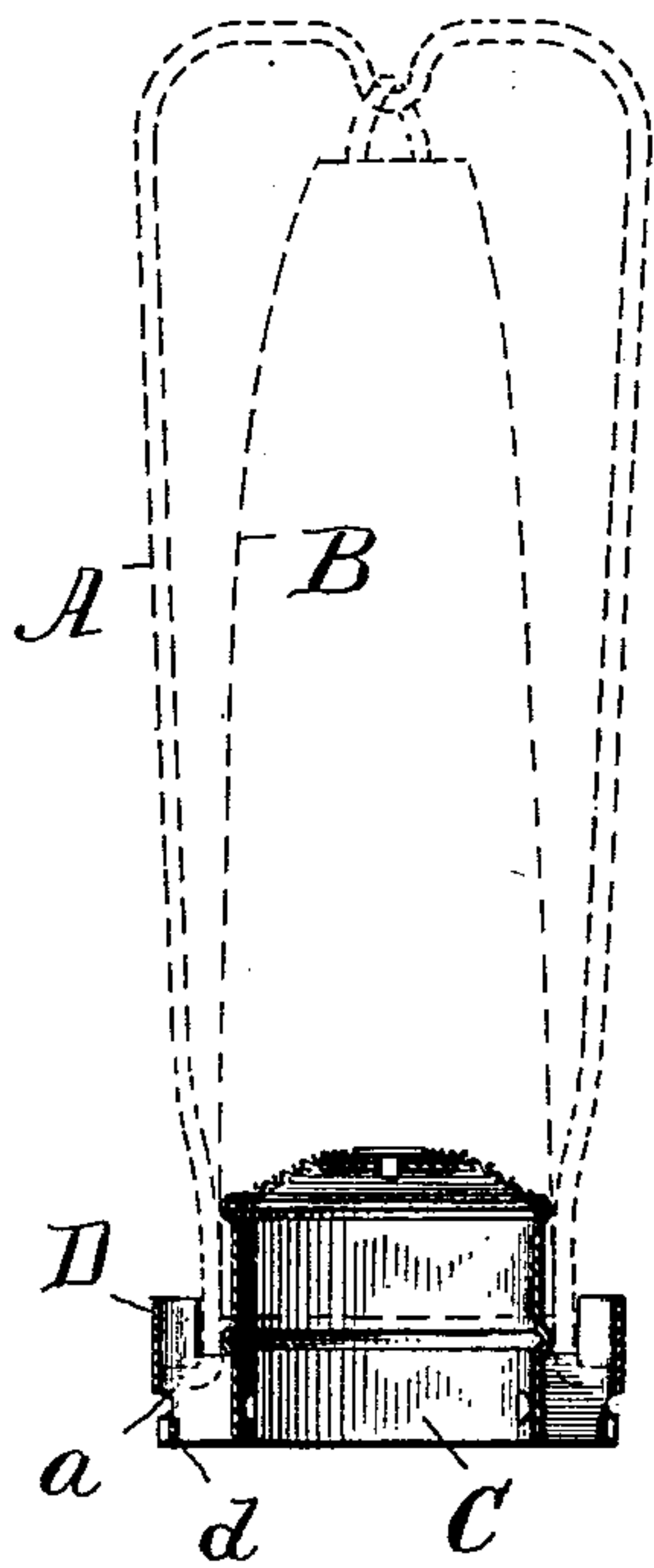


Fig. 3.

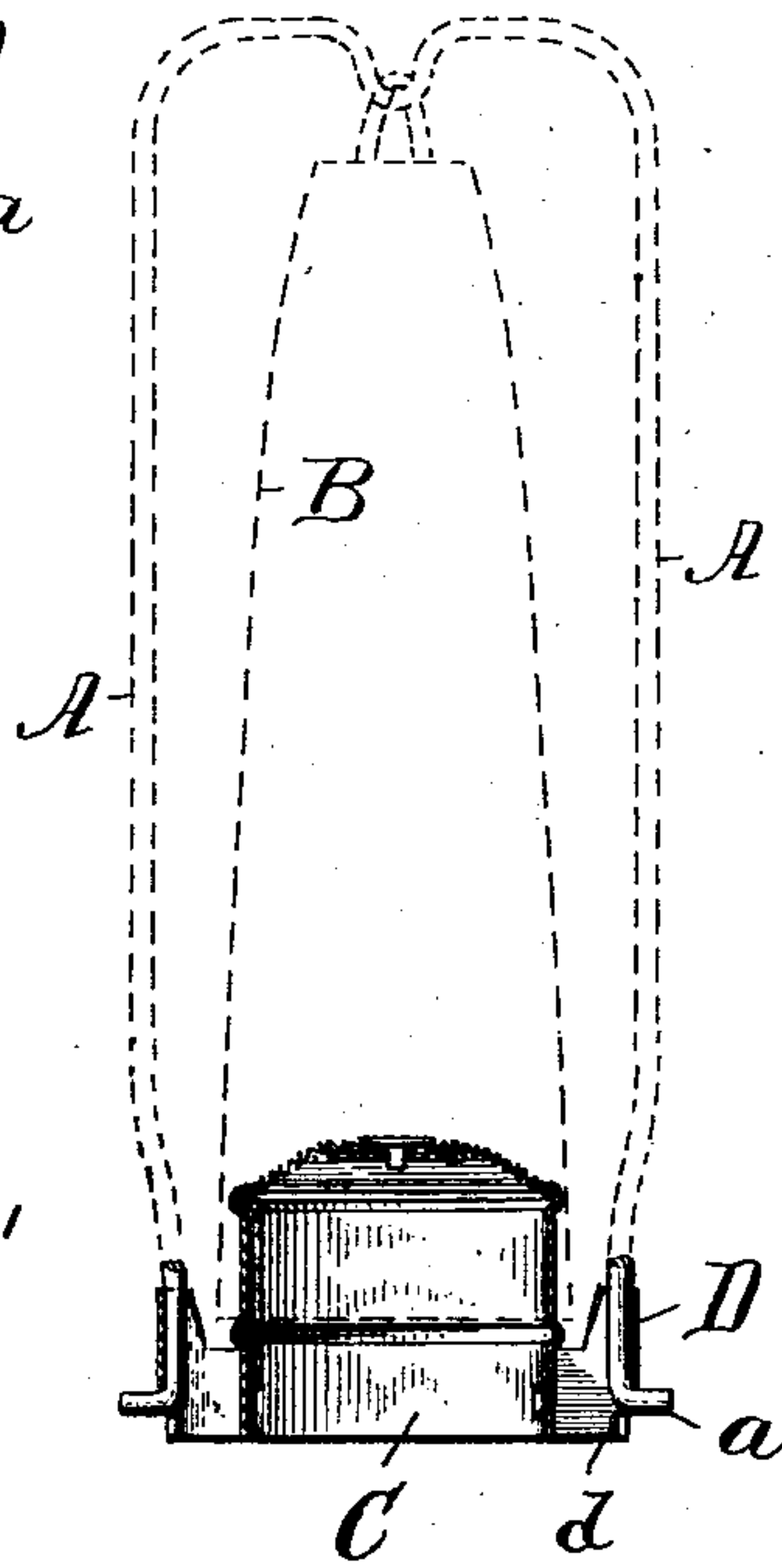


Fig. 4.

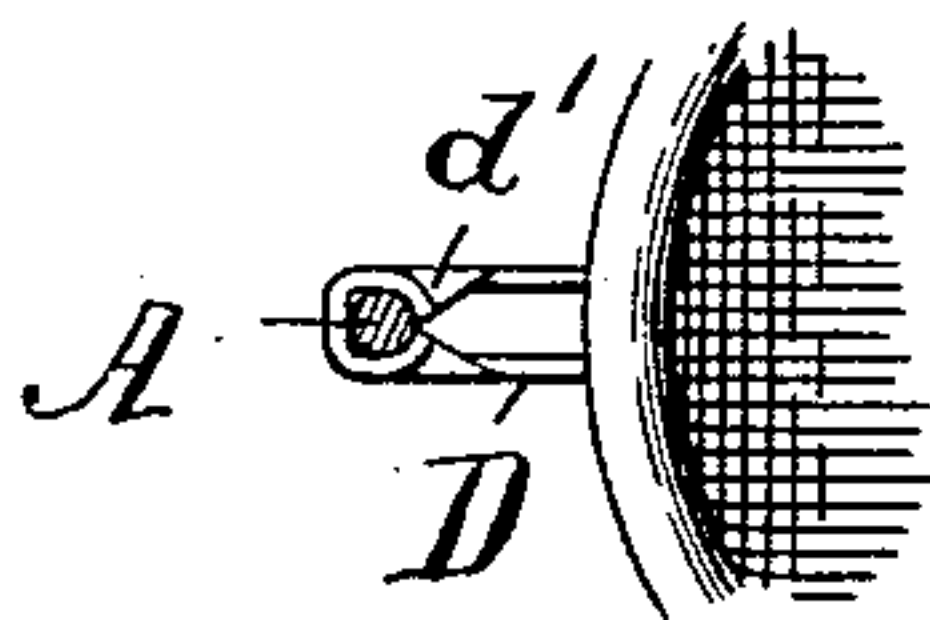


Fig. 5.

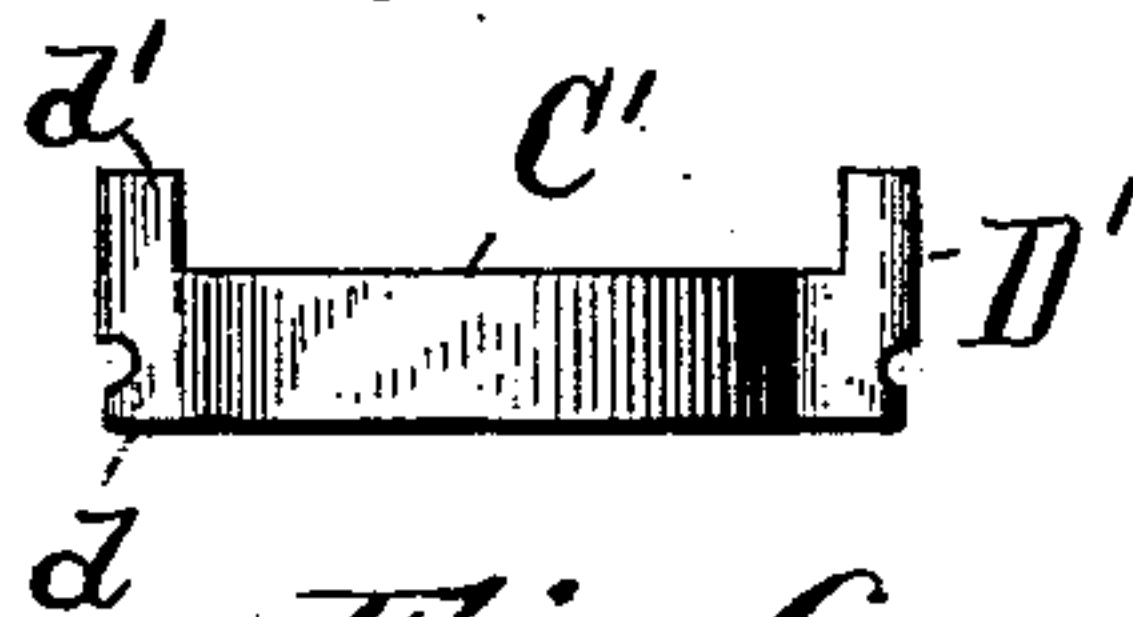
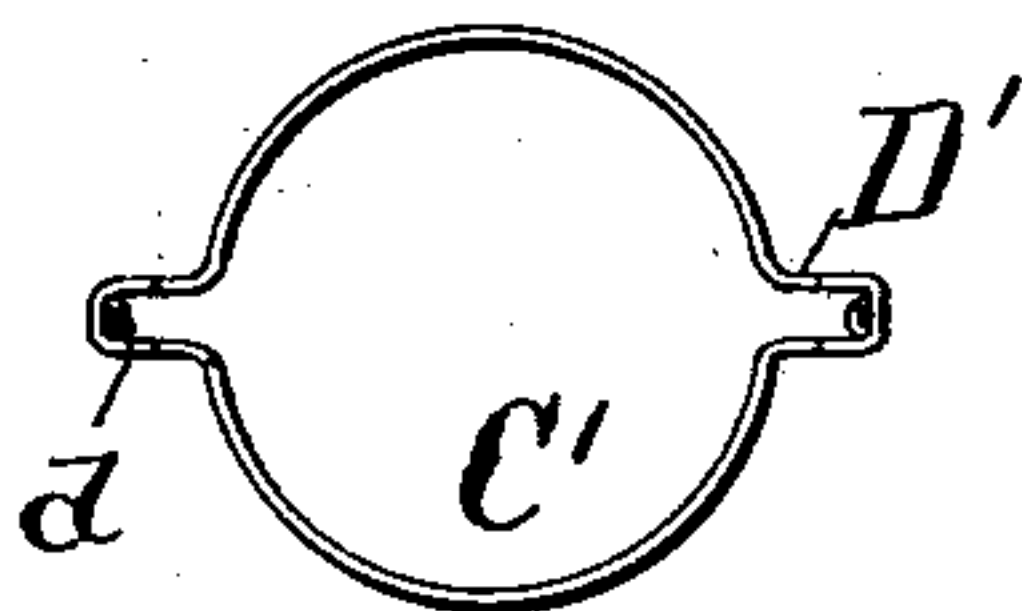


Fig. 6.



Witnesses:

J. B. McGivver
J. S. Allen

Inventor

William C. Homan

By *R. R. R. R. R.*
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM C. HOMAN, OF MERIDEN, CONNECTICUT, ASSIGNOR TO EDWARD MILLER & COMPANY, OF MERIDEN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

MANTLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 685,763, dated November 5, 1901.

Application filed August 8, 1901. Serial No. 71,303. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. HOMAN, a citizen of the United States, residing at Meriden, New Haven county, Connecticut, have
5 invented certain new and useful Improvements in Mantle-Supports, of which the following is a full, clear, and exact description.

Improvements in the art of incandescent gas-lighting is the subject of my invention,
10 as will more fully appear in the specification and drawings which are annexed.

The object of my invention is to provide a new and efficient means for securing the wire mantle-supports to a burner top or cap or
15 equivalent device.

In the drawings, Figure 1 is a view in elevation of a burner-top and a wire mantle-support embodying my improvements. Fig. 2 is a sectional view of the top shown in Fig. 1
20 with the wire supports (shown dotted) partly withdrawn. Fig. 3 is a view similar to Fig. 2, but showing the end of the wires in their operative relation with respect to the top. Fig. 4 is an enlarged detail view in plan. Fig. 5 is an elevation of a modification. Fig.
25 6 is a plan of the modification shown in Fig. 5.

To briefly describe the preferred form, A is a wire or rod having a depression at the top, at which point a mantle B is attached. The
30 wire support is in turn given a support from the burner-top C through the medium of the U-shaped clip D. The lower end of the wire, which may be called the "toe," may be bent outwardly at *a* and sprung into a recess in the clip D, as shown. Just below this recess
35 a stop *d* is provided, which in assembling may prevent the toe from passing down beyond the recess. When the wire is in the position shown in Fig. 3, the clip is pressed in
40 at the sides, as at *d'*, so as to hold the wire against the side of the clip and prevent its being withdrawn.

The clips may be made separate and attached to the top C in a suitable manner, or
45 they may be made integral with a ring C', as shown at D' in Figs. 5 and 6.

I make the parts in such proportions that when in assembling the wires are sprung inward and pushed down the toe will not allow the support to come out at the bottom of the
50 clip. When the toe is in the recess, the support is held securely by the spring of the wire supports. Inasmuch as heat softens the metal of the wire and in order to do away with any possibility of accident, I prefer to bend the
55 clips in to hold them.

What I claim is—

1. A burner-top having a clip carried thereby, a recess in said clip, a mantle-supporting wire, said wire adapted to coact with said recess and means for holding said wire against
60 said clip.

2. A burner-top having clips carried thereby, a recess in said clips, a mantle-supporting wire, and a stop carried by said clip whereby
65 the wire may be prevented from passing beyond said clip.

3. A burner-cap, a mantle-supporting wire having an outwardly-bent lower end, a clip carried by said burner-cap having a recess
70 therein adapted to coact with said supporting-wire and a stop whereby the continued movement of said supporting-wire when being placed in position is limited.

4. A burner-cap, a mantle-supporting wire
75 with its lower ends bent outwardly, clips carried by said cap adapted to hold said wires, substantially as shown and described.

5. A mantle-support comprising a burner-cap C, a supporting-wire A, clips D carried
80 by said cap the lower ends of said wire being bent outwardly at *a* to coact with the said clips, substantially as shown and described.

Signed at Meriden, Connecticut, this 6th day of August, 1901.

WILLIAM C. HOMAN.

Witnesses:

CHAS. E. HOMAN,
J. F. VAN OPPEN.