

No. 665,742.

Patented Jan. 8, 1901.

J. IRONS.
MANTLE SUPPORT.
(Application filed Nov. 9, 1900.)

(No Model.)

Fig. 1.

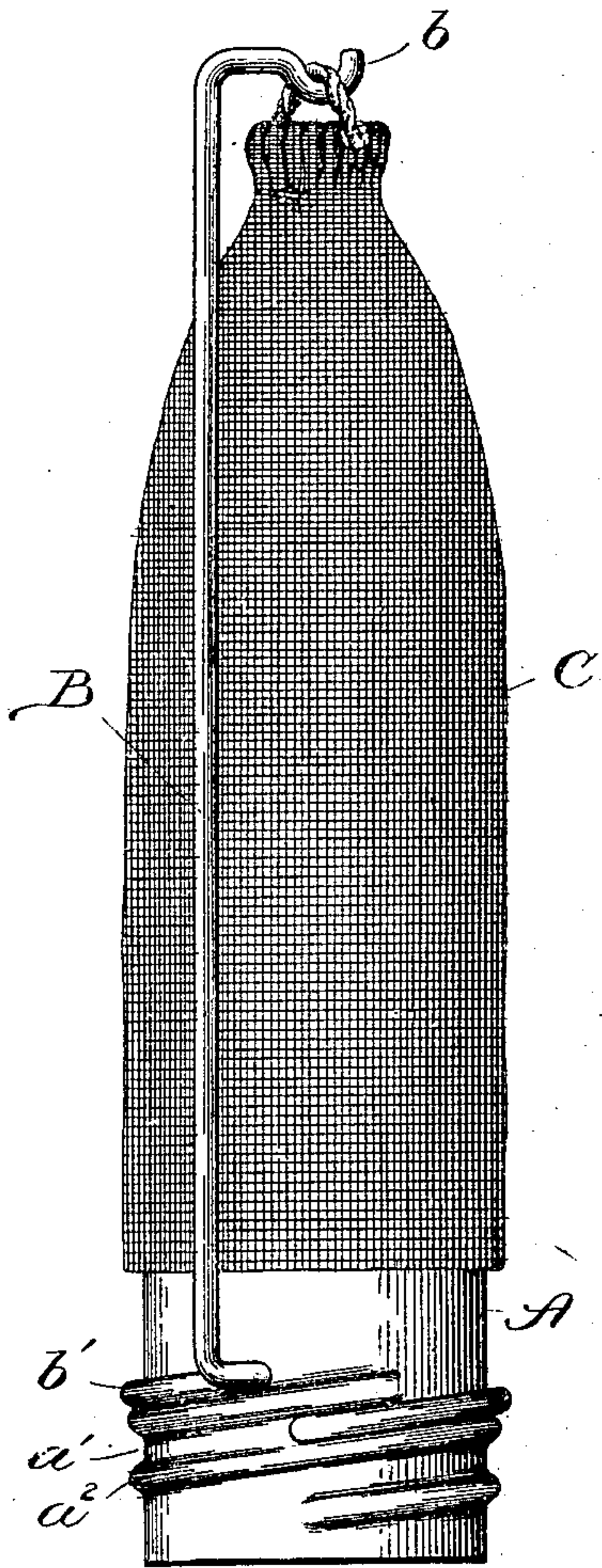


Fig. 2.

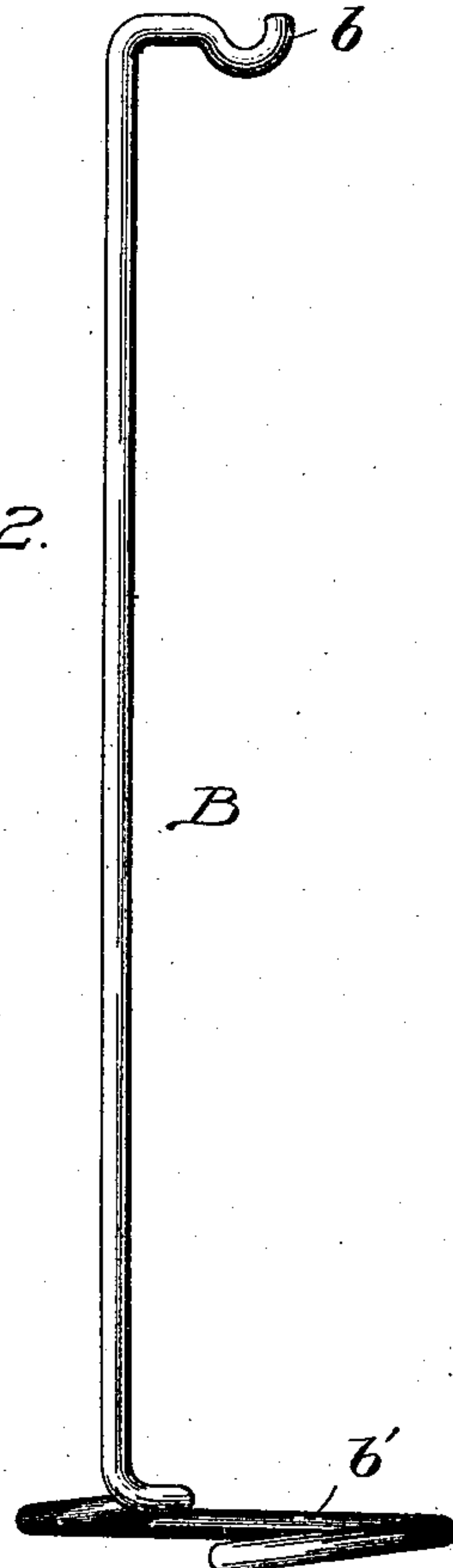
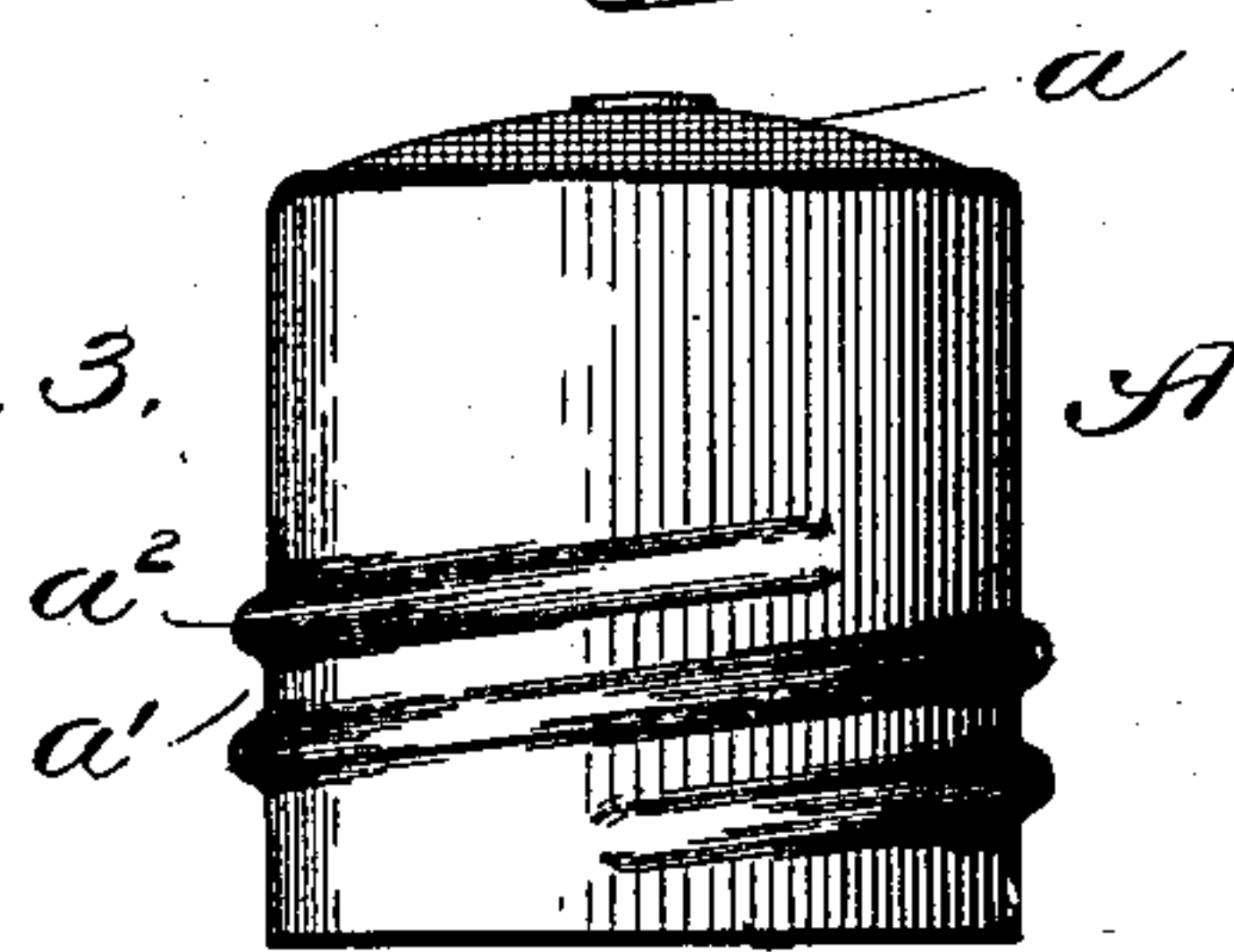


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES IRONS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE COSMOPOLITAN
INCANDESCENT GAS LIGHT COMPANY, OF SAME PLACE.

MANTLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 665,742, dated January 8, 1901.

Application filed November 9, 1900. Serial No. 35,907. (No model.)

To all whom it may concern:

Be it known that I, JAMES IRONS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have
5 invented a new and useful Improvement in Mantle-Supports, of which the following is a specification.

My invention relates particularly to adjustable mantle-supports for incandescent gas-
10 lights; and my object is to provide a simple inexpensive device of this nature which is perfectly adapted to its purposes.

My invention is illustrated in its preferred form in the accompanying drawings, in
15 which—

Figure 1 shows a gauze cap equipped with an adjustable mantle-standard, a mantle being shown in position; Fig. 2, a view of the mantle-standard detached from the gauze
20 cap, and Fig. 3 a view of the gauze cap.

A represents the gauze cap, B the mantle-standard, and C the mantle. The gauze cap is of the usual cylindrical form and is supplied at its upper end with a burner-gauze *a*. It is
25 provided externally with a spiral groove *a'*, which is preferably provided by forming a raised spiral thread *a²*, which may be done by pressing the metal outwardly or by spinning. The standard B is preferably of wire and is
30 here shown provided at its upper end with the usual hook *b*, from which the mantle is supported. At its base said standard is provided with a spiral portion *b'*, which embraces the gauze cap and engages the groove *a'*.
35 The spiral raised thread *a²* is shown as extending for a little more than two turns about the gauze cap. As the bottom of the groove *a'* is flush with the surface above the spiral thread *a²*, it is obvious that the standard B
40 may be raised or lowered through several turns. The spiral portion *b'* of the standard preferably extends slightly less than a complete turn, as shown. It is obvious that the thread *a²* is clamped between different parts
45 of the spring-metal spiral *b'*, thereby producing a firm connection between the mantle-standard and the gauze cap.

It is common to employ gauze caps of the

general form illustrated and standards for use therewith to mount the mantles upon
50 preparatory to packing them for shipment. When the mantles are unpacked, the gauze caps are ready equipped with a mantle-standard and mantle and may be applied to any
55 suitable burner. In some instances, however, the gauze cap is formed integral with the burner, and my invention is applicable to such a gauze cap.

The gist of my invention lies in providing the gauze cap with an external thread with
60 which the base of the mantle-standard has connection, the standard-base being rotatable about said gauze cap for the purpose of effecting a raising or lowering of the standard.

By means of my device the mantle may be
65 readily raised or lowered to bring it to the desired position relative to the flame and to bring its base to the desired position relative to the gauze cap. In some instances the fragile mantles become broken at their bases
70 and it is desired to lower them. This is readily accomplished, as stated.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a gauze cap having
75 an external thread, and a mantle-standard having its base connected with said thread and adjustable thereupon, substantially as and for the purpose set forth.

2. The combination of a gauze cap provided
80 with an external thread, and a mantle-standard having at its base a curved spiral portion engaging said thread, substantially as and for the purpose set forth.

3. The combination of a gauze cap provided
85 with an external raised thread, and a mantle-standard having at its base a spiral portion engaging said thread, the diameter of said spiral corresponding approximately with the diameter of said gauze cap, substantially as
90 and for the purpose set forth.

JAMES IRONS.

In presence of—

D. W. LEE,

ALBERT D. BACCI.