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M. & A. T. HERSKOVITZ.

MANTLE AND MANTLE SUPPORT FOR INCANDESCENT GAS LIGHTS.

(Application filed Mar. 1, 1900.)

(No Model.)

Fig. 1

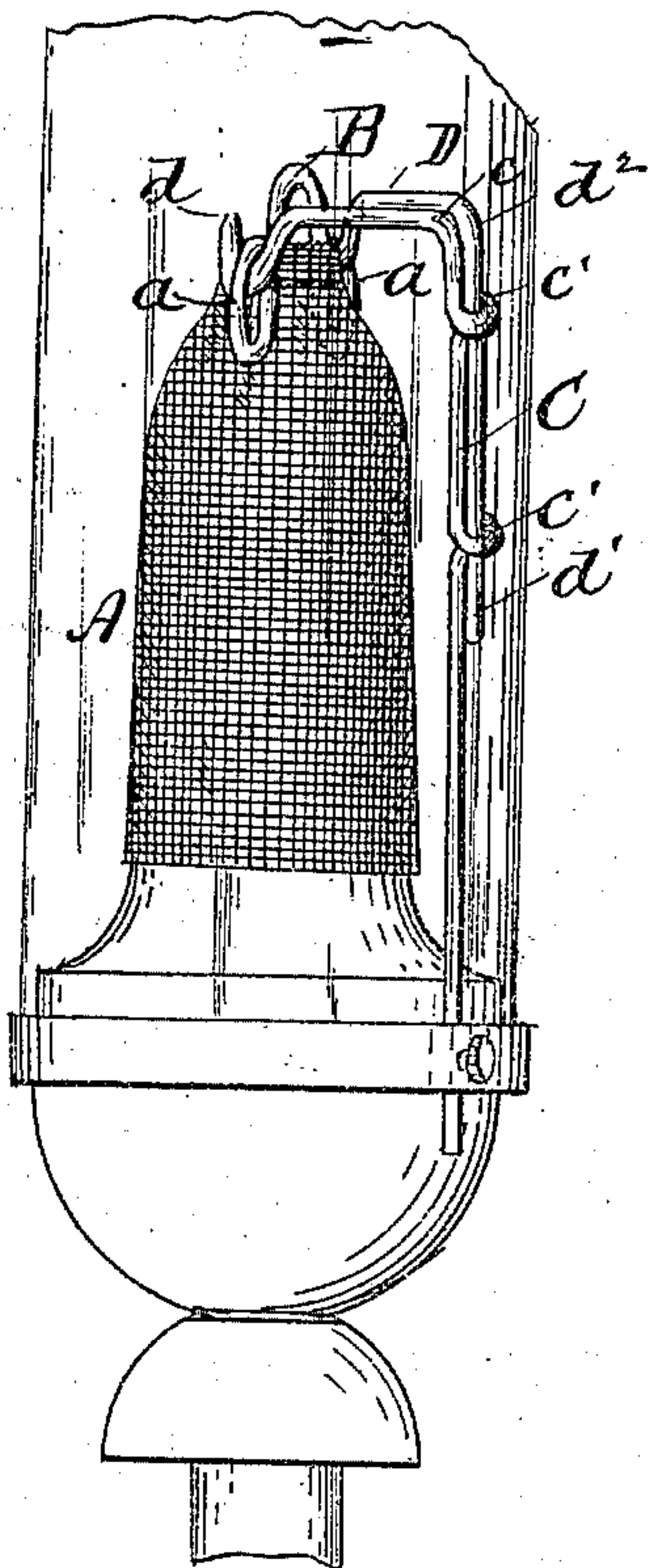


Fig. 2

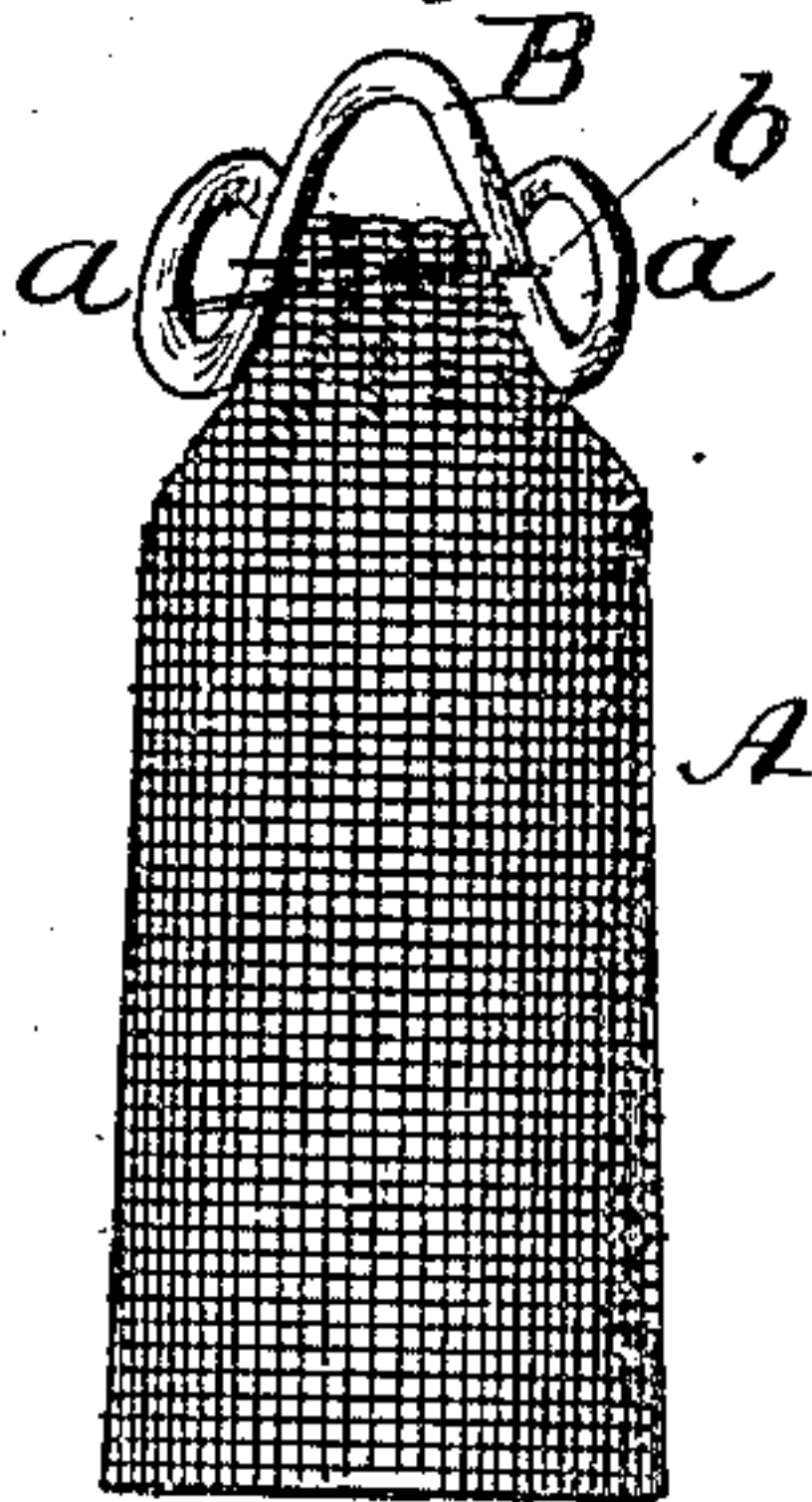
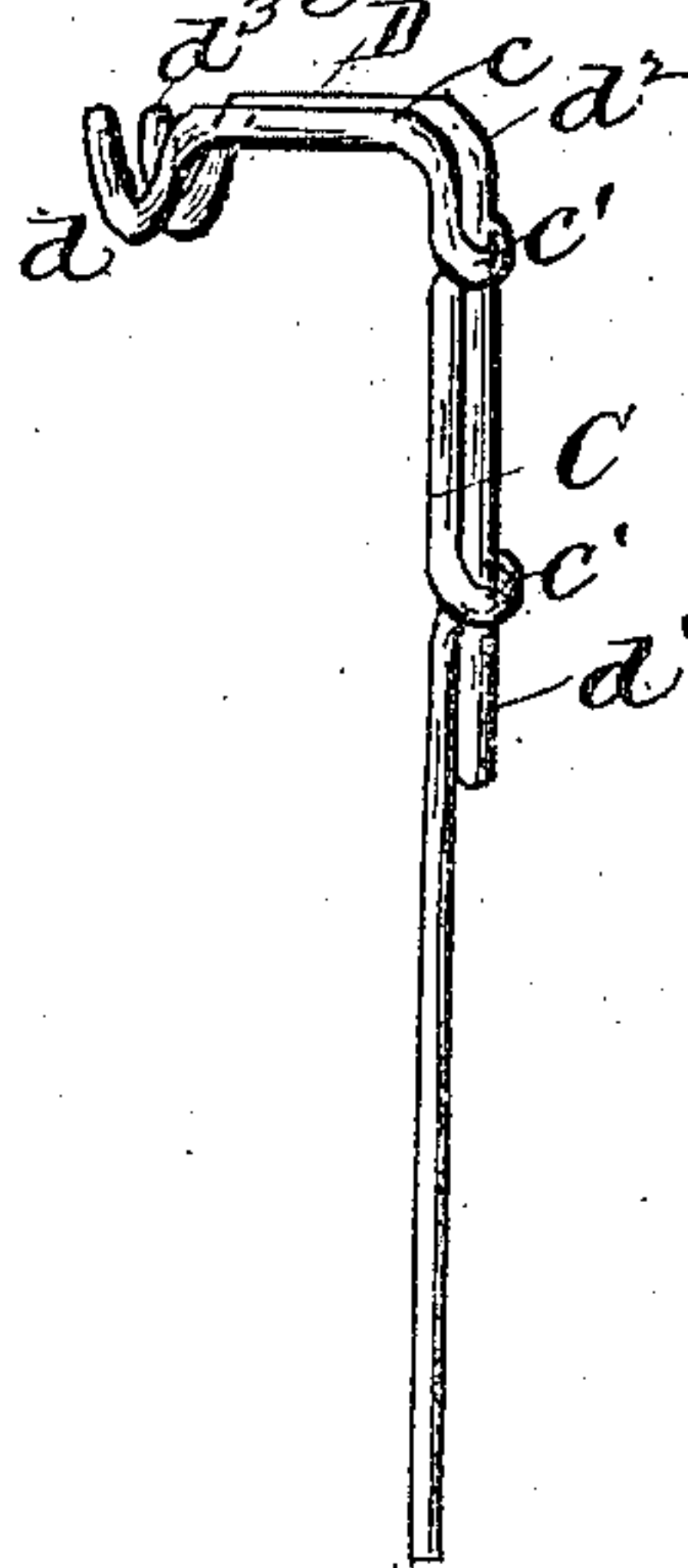


Fig. 3



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# UNITED STATES PATENT OFFICE.

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MANTLE AND MANTLE-SUPPORT FOR INCANDESCENT GAS-LIGHTS.

SPECIFICATION forming part of Letters Patent No. 662,381, dated November 20, 1900.

Application filed March 1, 1900. Serial No. 6,974. (No model.)

*To all whom it may concern:*

Be it known that we, MAX HERSKOVITZ and ABRAHAM T. HERSKOVITZ, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Mantles and Mantle-Supports for Incandescent Gas-Lights; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to mantles and mantle-supporters for incandescent gas-lights, and has for its object the provision of a novel means for supporting the mantle above the gas-flame.

The invention consists, first, in providing the mantle with a wire or metal loop which is attached to the upper end of the mantle by means of an asbestos cord or filament and constitutes a means for the suspension of the mantle from the adjustable supporting-rod, and, second, in constructing the mantle-supporting and suspending rod with double suspension-hooks adapted to engage with opposite sides of the mantle-loop and support the mantle firmly on the center of the burner.

In the accompanying drawings, Figure 1 is a side elevation of a burner for incandescent gas-lights with our invention applied thereto. Fig. 2 is a side view of our improved mantle. Fig. 3 is a side view of our improved double mantle-suspension rod.

The mantle A is of the usual or any suitable character; but instead of being provided with the usual suspension-loop made of asbestos cord it is provided with a wire or metal loop B, formed with rings or eyes *a a* on opposite sides. This wire or loop is fastened by a thread or filament of asbestos *b* to the upper contracted and crimped end of the mantle, as shown.

C represents the mantle-supporting rod, which, according to our invention, consists of a suitable length of wire bent over at its upper end, as shown at *c*, and formed at the end of *c* with a hook *d*. The vertical section of this wire is formed with two eyes or rings *c' c'*, as by bending the wire around a mandrel, and in these eyes or rings the stem *d'* of a supplementary suspension-rod D or wire

D is inserted and tightly held. The upper end of the wire D is bent at *d<sup>2</sup>* and formed with a hook *d<sup>3</sup>*, similarly to that of the wire or rod C. The two wires are spread apart at their upper ends and the eyes *a a* of the looped wire B hung thereon, as shown. The mantle being thus supported or suspended from two opposite points can be more accurately adjusted centrally over the burner than where there is, as usual, but one point of suspension, as either wire can be adjusted relatively to the other and the mantle thereby fixed in the required position, and when in position is not liable to be thrown accidentally out of position. The supporting-hooks not being over the center of the flame are not liable to become overheated and destroyed. If desired, the supporting-hooks may be closed together and the mantle supported by hanging the central bend *f* on the loop B upon the two hooks.

Having described our invention, we claim and desire to secure by Letters Patent—

1. A mantle for incandescent lights, having a stiff suspension-wire attached to its upper end at two opposite points and formed with a loop at each end outside the points of attachment.

2. A supporting-rod for mantles consisting of two bent hook-ended wires, one having a straight shank and the other having a shank with eyes embracing said straight shank, said wires being relatively adjustable substantially as described.

3. A mantle for incandescent gas-lights having at its upper end a suspension-wire, looped at its ends, and bent between the loops, so that it may be supported from the sides or center, substantially as described.

4. The combination with a mantle having a double-looped suspension-wire at its upper end, of a suspension-rod consisting of two relatively adjustable wires coupled together and terminating each in a suspension-hook, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

MAX HERSKOVITZ.

ABRAHAM T. HERSKOVITZ.

Witnesses:

W. J. ZUCKER,

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