

No. 697,361.

Patented Apr. 8, 1902.

D. J. PRENDERGAST & V. H. SLINACK.
MANTLE FOR INCANDESCENT BURNERS.

(Application filed July 23, 1901.)

(No Model.)

Fig. 1.

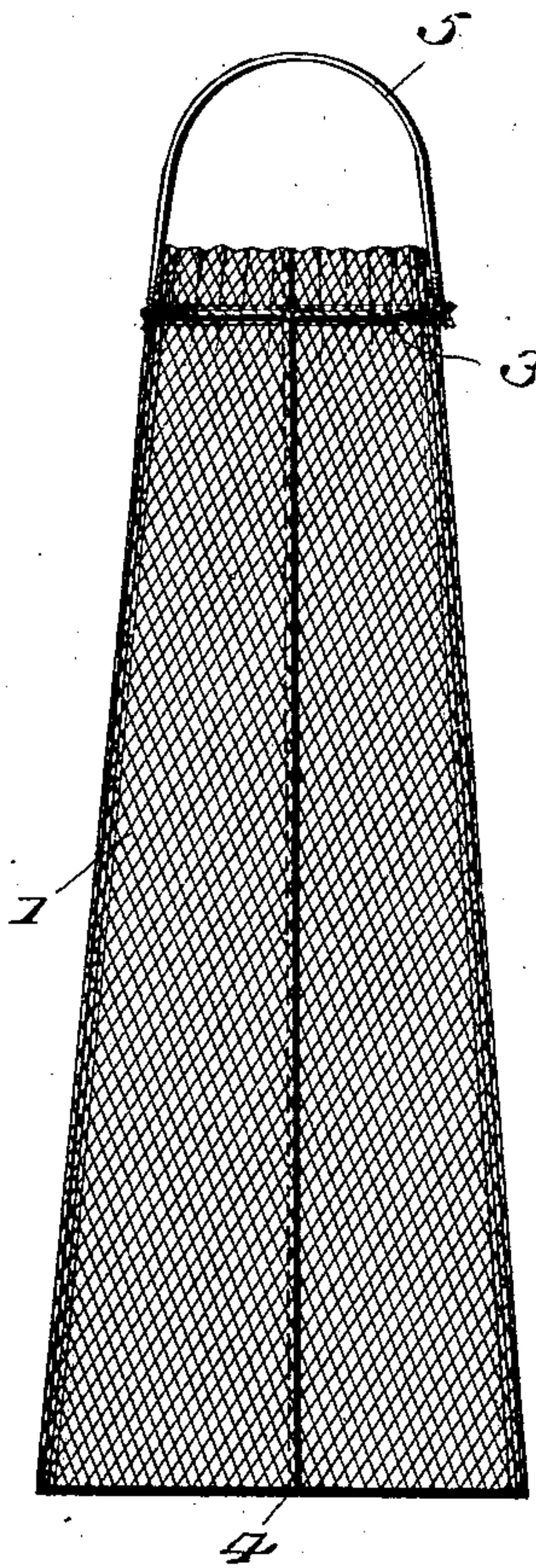


Fig. 2.

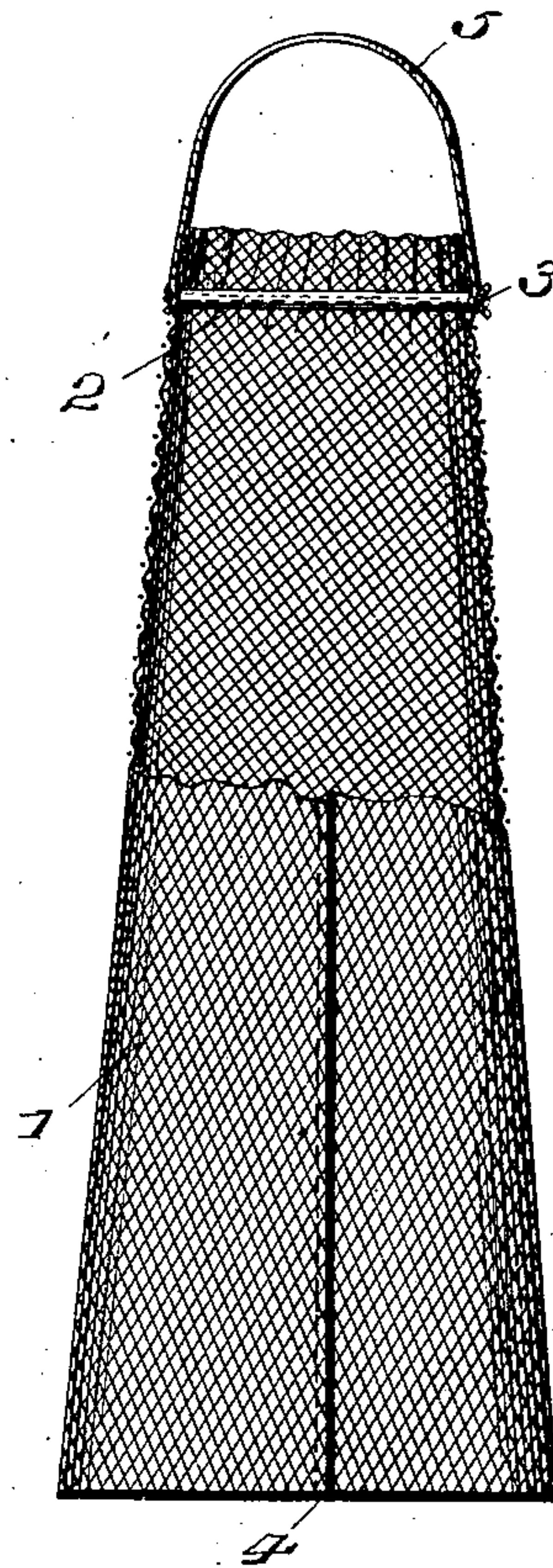
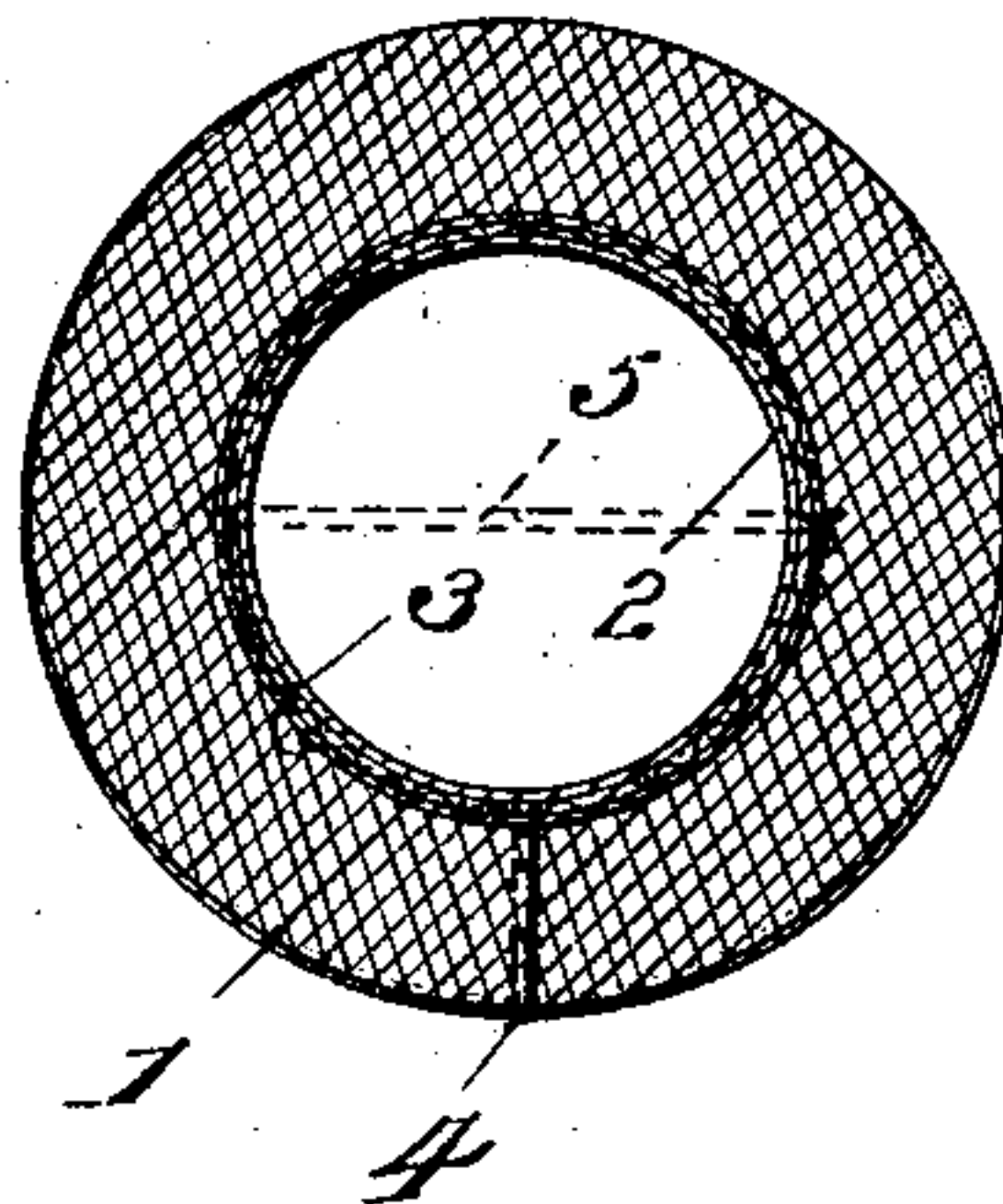


Fig. 3.



Witnessed
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UNITED STATES PATENT OFFICE.

DANIEL J. PRENDERGAST, OF NEW YORK, N. Y., AND VICTOR H. SLINACK,
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MANTLE FOR INCANDESCENT BURNERS.

SPECIFICATION forming part of Letters Patent No. 697,361, dated April 8, 1902.

Original application filed October 13, 1898, Serial No. 693,397. Divided and this application filed July 23, 1901. Serial No. 69,355. (No model.)

To all whom it may concern:

Be it known that we, DANIEL J. PRENDERGAST, residing at the city of New York, in the county of New York and State of New York, and VICTOR H. SLINACK, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, citizens of the United States, have jointly invented certain new and useful Improvements in Incandescent Mantles, of which the following is a specification.

The invention relates to mantles for incandescent burners, and is a division of our original application, Serial No. 693,397, filed October 13, 1898.

The object of the invention is to provide an incandescent element or mantle of superior strength and lasting qualities and one which is particularly adapted to burners having a forced draft.

To the ends stated the invention consists in the improved mantle hereinafter described and claimed.

The nature, characteristic features, and scope of the invention will be more clearly understood by reference to the accompanying drawings, forming a part hereof, in which—

Figure 1 is an elevational view of a mantle embodying features of the invention. Fig. 2 is a view, principally in section, illustrating the means for suspending the mantle. Fig. 3 is a plan view, on an enlarged scale, showing clearly the ring and its manner of attachment to the mantle.

In the drawings, 1 is an incandescent element or mantle consisting of a sheet of refractory fibrous material. This surrounds the exterior of a grooved ring 2, resembling an eyelet, and is secured to place by means of a cord or wire 3, which binds the sheet in the groove of the ring. The sheet of material is formed into a tube by having its edges overlapped, as at 4, thus affording freedom of motion, which compensates for expansion and contraction.

5 is a bail secured, for example, by means of the cord or wire 3 at the top of the mantle or incandescent element.

The provision of the rings or eyelets 2 insures an opening at the top of the mantles and also constitutes means upon which the incandescent fabric may be wound so as to lap, as at 4, thus permitting of expansion and contraction, which results in a prolonging of the life of the mantle.

By reason of its increased structural strength the mantle is particularly well adapted for use on burners the flame of which is projected under forced draft through the mantle and at the same time caused to impinge on the outside thereof.

It will be obvious to those skilled in the art to which the invention appertains that modifications may be made in details without departing from the spirit and scope of the invention. Hence we do not limit ourselves to the precise construction and arrangement of parts hereinabove described, and illustrated in the accompanying drawings; but,

Having thus described the nature and objects of the invention, what we claim as new, and desire to secure by Letters Patent, is—

1. An incandescent element for gas-lights consisting of a ring or eyelet, and a sheet of incandescence fabric or material surrounding the exterior of the ring and having its edges overlapped to form a tube, and a cord or wire for securing the sheet to place on the ring, substantially as described.

2. An incandescent element for gas-lights consisting of a ring or eyelet and a sheet of incandescence fabric or material surrounding the exterior of the ring and having its edges overlapped to form a tube, a cord or wire for securing the sheet to place on the ring, and a bail attached to said cord or wire, substantially as described.

In testimony whereof we have hereunto signed our names.

DANIEL J. PRENDERGAST.
VICTOR H. SLINACK.

In presence of—
E. U. GOOLD,
F. P. BELL.