

I. E. PALMER.
Mosquito Canopy.

No. 159,441.

Patented Feb. 2, 1875.

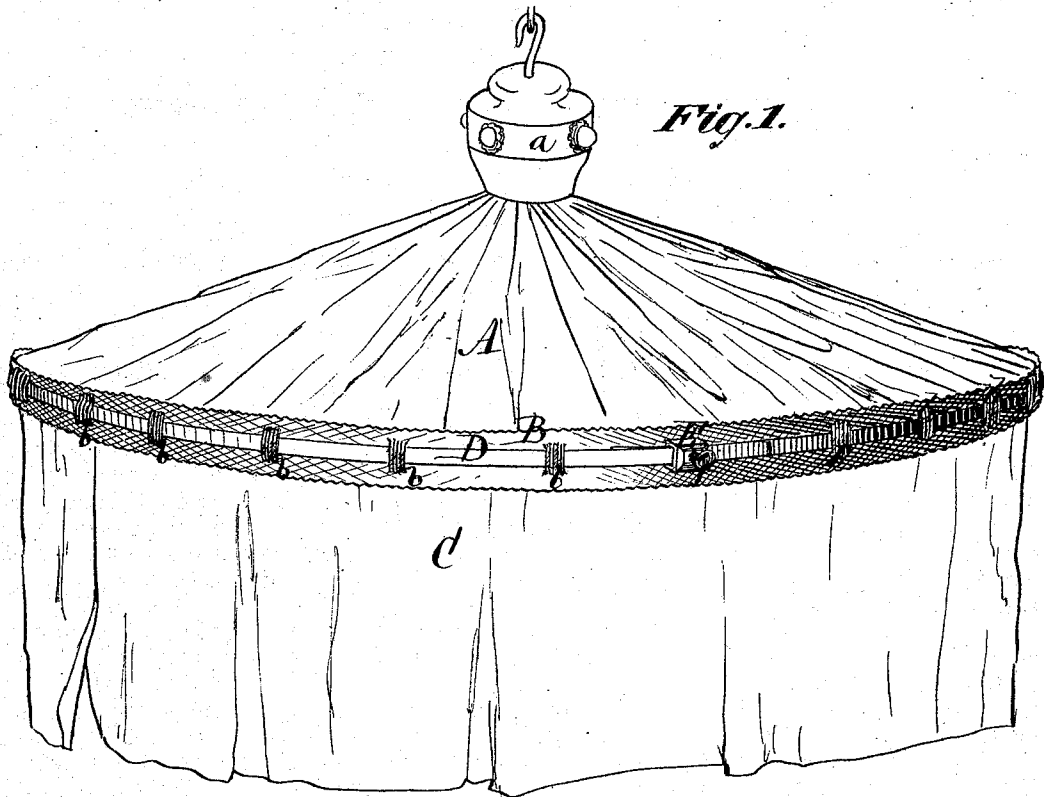


Fig. 2.

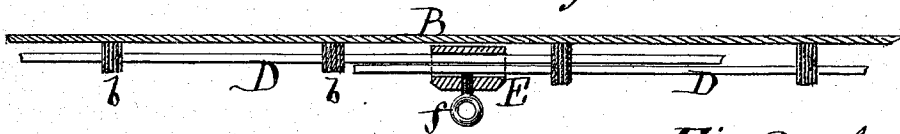


Fig. 4.

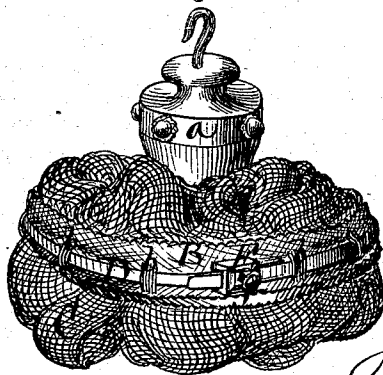
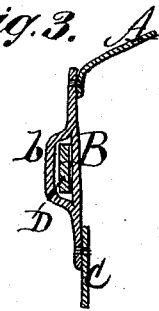


Fig. 3.



Witnesses
John Becker
Fred. Wagner

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UNITED STATES PATENT OFFICE.

ISAAC E. PALMER, OF MIDDLETOWN, CONNECTICUT.

IMPROVEMENT IN MOSQUITO-CANOPIES.

Specification forming part of Letters Patent No. **159,441**, dated February 2, 1875; application filed August 15, 1874.

To all whom it may concern:

Be it known that I, ISAAC E. PALMER, of Middletown, in the county of Middlesex and State of Connecticut, have invented certain Improvements in Mosquito-Canopies, of which the following is a specification:

My invention consists in a mosquito-canopy having the ends of its head-sustaining hoop secured by a clamp, which is adjustable, so that said hoop may be adjusted to keep the head properly distended, and compensate for any contraction that may result from the washing of the net. The invention consists, further, in a sustaining-hoop running through a pocket or series of pockets woven in the heading, which serves as a trimming at the junction of the head and skirt, so that said hoop may be readily inserted in place and removed when necessary.

In the accompanying drawing, Figure 1 is a perspective view of my improved canopy. Fig. 2 is a longitudinal horizontal section through a portion of the heading. Fig. 3 is a transverse vertical section through the heading, and a portion of the head and skirt. Fig. 4 is a perspective view of the canopy folded so as to occupy a small space.

The canopy is made of the fabric known as mosquito-netting. The head A may be a circular piece of fabric, or it may be a strip with one edge gathered to a center, so that the other edge will form a circle. The center of the head is attached to a knob or block, *a*, provided with a hook for suspending it from the ceiling. The outer edge of the head is attached to the upper edge of the heading B, and the skirt C is attached to the lower edge of said heading. The heading B consists of a strip of woven fabric, with a pocket or series of pockets, *b*, formed at certain points on the outer side by passing the weft outside of the warp at those points during the process of weaving. The pocket may, if desired, extend continuously around the heading; but I prefer to make a series of them, as shown. The

heading may be plain or ornamented, as desired. Through the pockets *b* the hoop D is passed. This hoop consists of a strip of flat elastic metal, such as ordinary hoop-skirt wire, covered with woven fabric, which may contain different colors, or threads of gold or silver, and be ornamented in any desired manner. The ends of the hoop are inserted in a clamp, E, which is provided with a set-screw, *f*, for holding said ends. By this means the ends may be lapped one over the other, more or less, according as the hoop is to be made smaller or larger, and held firmly together, so as to preserve the desired size of the hoop, so that in case of shrinking of the heading, the hoop may be adjusted to compensate therefor. By means of the pockets *b* the hoop is readily inserted in place, and as readily removed when necessary to allow of the netting being washed, or for packing away, or any other purpose. The hoop D is flexible throughout its length, to provide for the folding of said hoop at any points of its circumference with the net, so that the hoop and net may be doubled and folded in a small space, as represented in Fig. 4.

I claim—

1. The combination, with the head-sustaining hoop of a mosquito-canopy, of a screw-clamp adapted to embrace both ends of the hoop, whereby the said hoop may be adjusted to compensate for the shrinkage of the net, as herein described.

2. A mosquito-canopy provided with a pocket or series of pockets woven in the heading, which serves as a trimming at the junction of the head and the skirt, in combination with a hoop passing through said woven pocket or pockets, in the manner and for the purpose described.

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Witnesses:

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