

*S. Kemper,*  
*Mosquito Bar.*  
 No. 102830. *Patented May 10. 1870.*

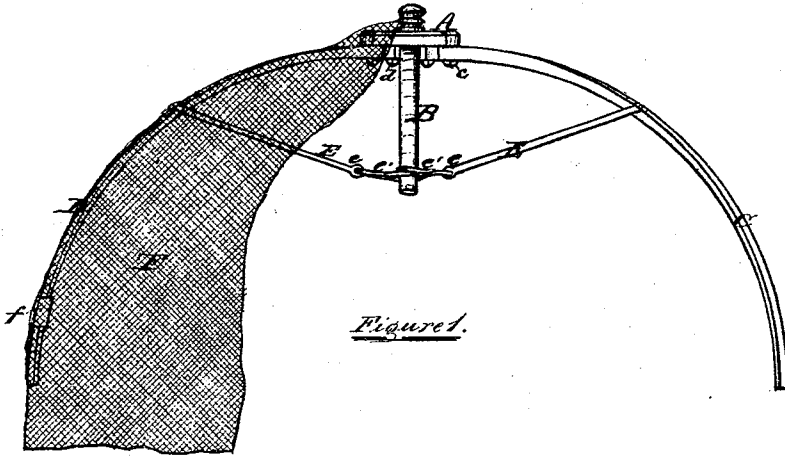


Figure 1.

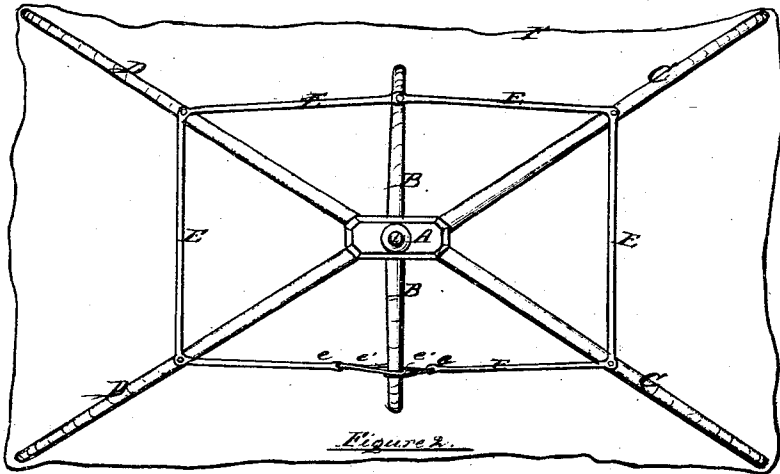


Figure 2.

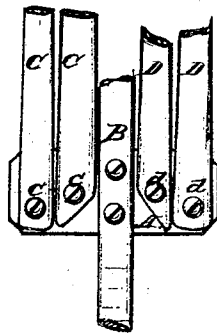


Figure 3.

Witnesses:

*William W. Hesthel*

*Robert Burns.*

Inventor:

*Simon Kemper*  
*By L. A. City's*  
*Hesthel & Co.*

# United States Patent Office.

SIMON KEMPER, OF BERGER, MISSOURI.

Letters Patent No. 102,830, dated May 10, 1870.

## IMPROVED MOSQUITO-BAR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SIMON KEMPER, of Berger, in the county of Franklin and State of Missouri, have made certain new and useful Improvements in Mosquito-Bars and Frames; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

This invention relates principally to the arrangement of the frame in parts which may readily be brought together, or moved apart into position for supporting the bar or netting; when folded said parts occupy little room, and are, therefore, economically conveyed from place to place, or stored.

As the said frame and bar is also intended for use when the opportunities for support of the frame are limited to the bed or resting place of the user, the said frame is formed peculiarly for its own support.

To enable those herein skilled to make and use my said invention, I will now more fully describe the same, referring herein to the accompanying drawing—

Figure 1 as an elevation;

Figure 2 as a plan showing the frame and bar as in ordinary use; and to

Figure 3 as an enlarged view, showing the frame folded for storage.

The frame has a center bar, A, which may have a small knob or a hook in accordance with the use and support of the frame. To this bar all others are joined.

Usually, at right angles therewith, I secure to the bar A the short bow B; these parts are permanent in their relative positions.

At either side of the bow B on the bar A are pivoted respectively, at *c* and *d*, the long bows or supports C and D; these are of such length and curved form as to cause the mosquito or fly-netting to rest on the frame in a dome-like concave, thus removing the net-

ting from the person thereunder sufficiently to prevent injury to the netting and avoid the stings of insects on the netting.

The supports C and D then may stand on the bed or other resting place. The parts thus described, owing to their joint with the center-bar A, as aforesaid, may readily be folded to the form indicated in fig. 3.

In order to hold the parts asunder and preserve the dome form required, the cord or band E is carried from bow to bow, as indicated in the plan, being secured to each bow.

The ends *e* of the cord extend beyond the supports D, and have the rubber or other elastic loops *e'*, so that the cord may readily draw onto the short bow B<sup>1</sup>

By pressing the loops *e'* off the bow B the parts are free to move together.

The netting F is drawn over the frame, and is held in position by rubber or similar loops *f* fitting about the supports C and D.

The frame F will be formed of wood or metal, in light and graceful form, and the entire device will, from its simplicity, be cheap and durable.

Having thus fully described my invention,

What I claim, is—

1. The center-bar A, with the short bow B and hinged bows C and D joined by a cord E *e*, and rubber loops *e'* substantially as set forth.

2. The parts before named in first claim, when combined with the netting F and its loops *f*, substantially as set forth.

In testimony of said invention I have hereunto set my hand in presence of—

SIMON KEMPER.

Witnesses:

WILLIAM W. HERTHEL,  
ROBERT BURNS.