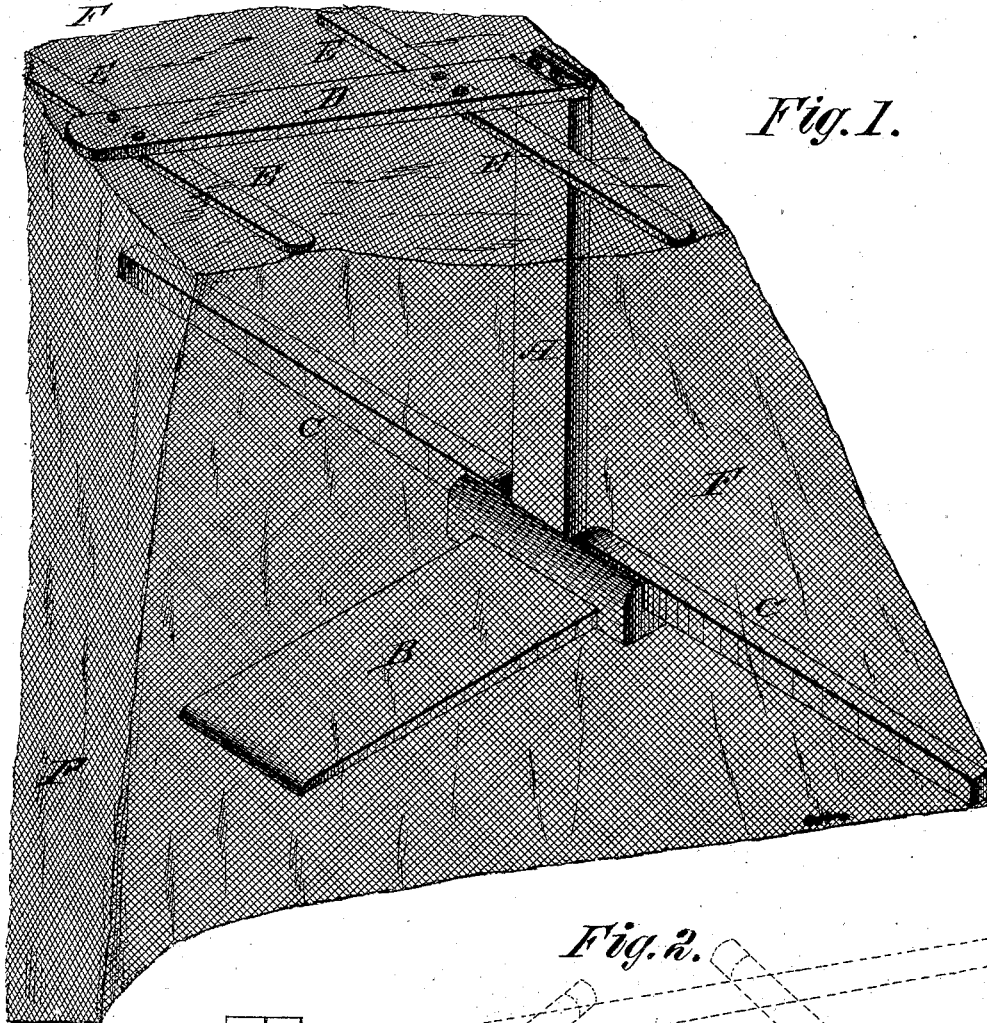


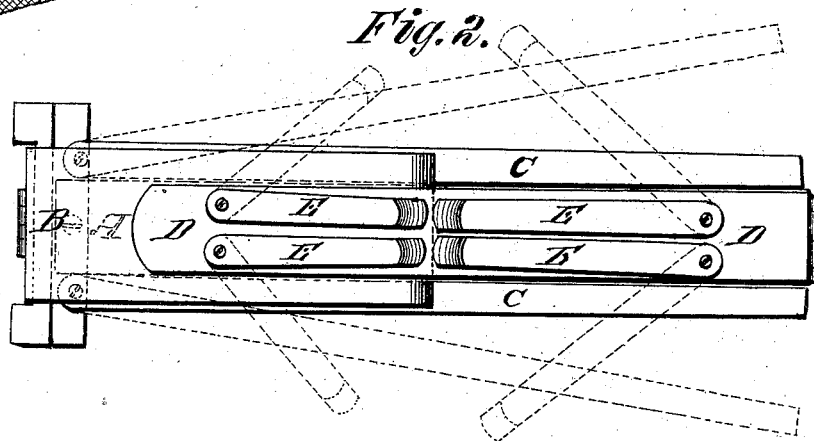
A. A. COWING.  
Portable Mosquito-Bars.

No. 199,695.

Patented Jan. 29, 1878.



*Fig. 1.*



*Fig. 2.*

Witnesses:

*P. C. Dietrich.*  
*Frank H. Duffy*

Inventor:

*Albert A. Cowing*  
Per *C. H. Watson & Co.* Attorneys.

# UNITED STATES PATENT OFFICE.

ALBERT A. COWING, OF WATKINS, NEW YORK.

## IMPROVEMENT IN PORTABLE MOSQUITO-BARS.

Specification forming part of Letters Patent No. **199,695**, dated January 29, 1878; application filed July 17, 1877.

*To all whom it may concern:*

Be it known that I, ALBERT A. COWING, of Watkins, in the county of Schuyler and State of New York, have invented certain new and useful Improvements in Portable Mosquito-Bars; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to portable mosquito-bars, having for its object to furnish a device which can be carried with the user in a trunk, or otherwise, by which means travelers may carry with them a cheap and convenient protection against mosquitos and flies, one not liable to get out of repair, convenient in use, and can be used by any one; and it consists in the bar, as will be hereinafter more fully described.

In the annexed drawings, Figure 1 is a perspective, and Fig. 2 is a bottom view, showing the frame folded.

A represents an upright standard, which is hinged to a base, B, so that the base may be turned outward and folded up against the standard A.

C C represent two transverse arms, hinged to the base, which may be folded up against the standard A.

At the top of the standard A is hinged the bar D, extending forward on a line parallel with the bar B. This bar D is so hinged that it can be raised upward and folded down to the back side of the standard A.

To the bar D are pivoted bars E E E E, more or less, as desired, which stand out in a transverse position, and serve to spread and support the net when in use, but which, by means of their pivot, may be turned in beneath the bar D when the device is not desired for use, but packed for transportation.

F represents the net, which is secured only to the outside of the bars C, so that when the

device is to be folded the net is turned upward and outward over the frame, the bars E are turned inward under the bar D, the bar D is turned upward and downward to the rear of the standard A, the bar B is turned downward and upward to the rear of the standard A, and the bars C are turned upward to the sides of the standard A, and thus the entire frame-work is folded to form a single straight piece, around which the net is wrapped.

It will thus be seen that by this device a person may be furnished with a cheap portable frame for a mosquito-net, which may be packed in a trunk, or otherwise conveyed, at the convenience of the traveler.

When in use the bar or base B is placed beneath the pillow, and the bars C rest on the back of the pillow, between the pillow or pillows and head-board, when used upon a bed, which furnish all the necessary means of supporting the device in a proper position; and it may be used upon a cot, or in camping out, and supported entirely by the pillow or other article resting upon the base B, which will furnish all the support desired.

Having thus fully described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. The bar or base B, in combination with the standard A and a suitable frame-work for supporting the net, substantially as and for the purpose set forth.

2. The standard A, base B, side bars C, and the upper folding longitudinal bar D, substantially as and for the purpose set forth.

3. The standard A, folding-base B, folding arms C, folding bar D, folding arms E, and net F, constructed and arranged substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ALBERT A. COWING.

Witnesses:

ARTHUR T. SKINNER,  
R. W. SHEWMAN.