No. 653,621. Patented July 10, 1900.

W. J. DURHAM.

MOSQUITO CANOPY FRAME.

(Application filed Mar. 7, 1899.)

(No Model.)

Fig. 1.

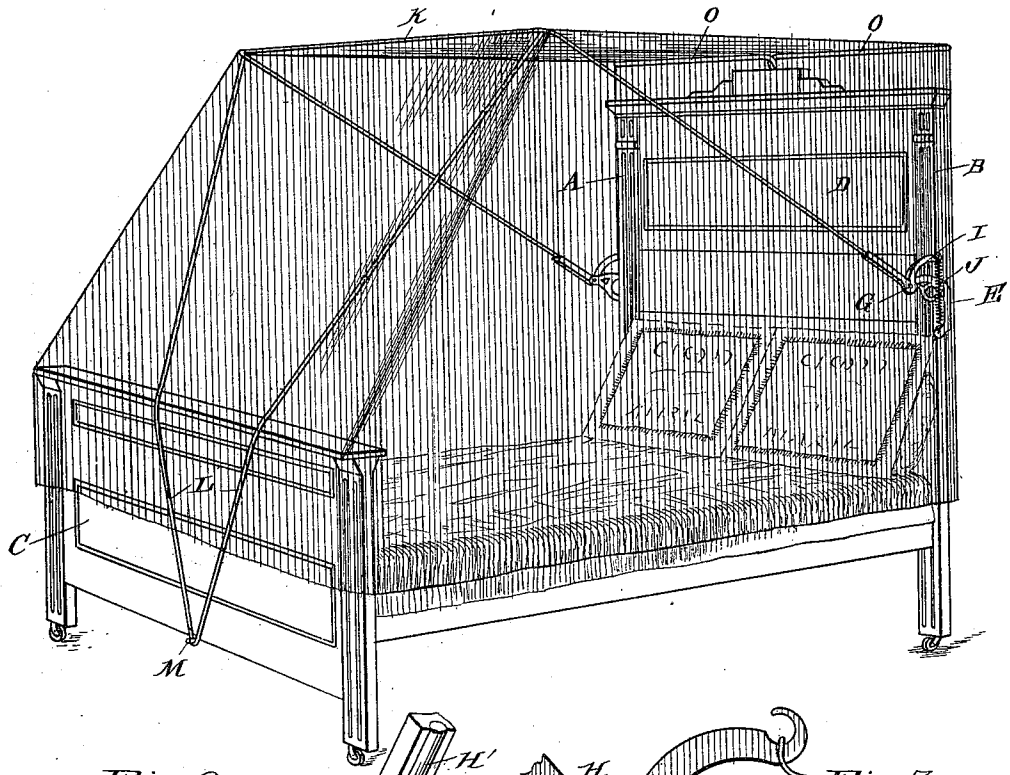


Fig. 2.

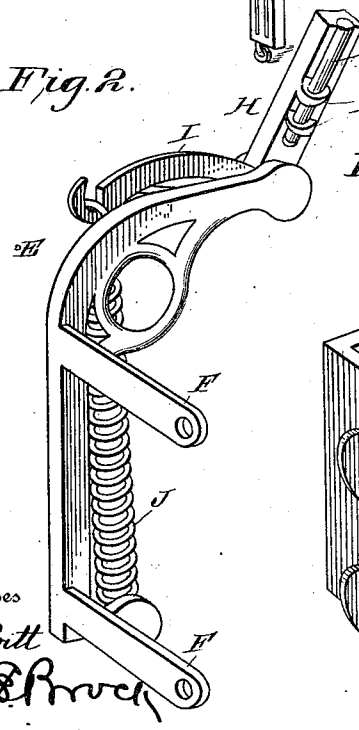


Fig. 4.

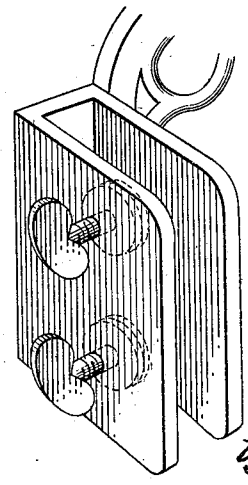


Fig. 3.

Witnesses
T. P. Britt
Chas. E. Brock

Inventor
W. J. Durham,
by Munn & Co.
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILL J. DURHAM, OF KNOXVILLE, TENNESSEE, ASSIGNOR TO THE UNITED STATES CANOPY COMPANY, OF SAME PLACE.

MOSQUITO-CANOPY FRAME.

SPECIFICATION forming part of Letters Patent No. 653,621, dated July 10, 1900.

Application filed March 7, 1899. Serial No. 708,160. (No model.)

To all whom it may concern:

Be it known that I, WILL J. DURHAM, residing at Knoxville, in the county of Knox and State of Tennessee, have invented a new and useful Mosquito-Canopy Frame, of which the following is a specification.

My invention is in the nature of a mosquito-canopy frame or a frame to be erected upon the bedstead to support a canopy thereon.

The object of my invention is to generally improve the construction and operation of canopy-frames by simplifying and cheapening them, while rendering them more durable and effective.

With this object in view my invention consists in a canopy-frame comprising a bracket to be secured to the bedstead, a canopy-support pivotally secured to the bracket and projecting beyond the pivot, and a spring attached to the bracket and to the projecting end of the support, whereby the support will be normally held in an upright position, means being provided for holding the support in a lowered position when desired.

My invention further consists in the improved construction, arrangement, and combination of parts hereinafter fully described and afterward specifically pointed out in the claims.

In order to enable others skilled in the art to which my invention most nearly appertains to make and use the same, I will now proceed to describe its construction and operation, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view illustrating my improved canopy-frame in practical operation. Fig. 2 is a detail perspective view illustrating the method of securing the canopy-frame to the supporting-bracket. Fig. 3 is a detail view, in side elevation, of the same parts. Fig. 4 is a detail view illustrating the device for elevating the head end of the canopy.

Like characters of reference mark the same parts wherever they occur in the different figures of the drawings.

In the practical embodiment of my invention I have illustrated the same applied to a bedstead of ordinary construction, of which A and B are the head-posts, C the footboard, and D the headboard, and inasmuch as these are the only parts of the bedstead to which my canopy-frame is to be connected no others will be lettered or described.

E indicates one of the brackets by means of which the canopy is to be supported from the head-posts A and B. These brackets are of identical construction except that the parts are made right and left to fit the opposite head-posts. The description of one will therefore be sufficient for both. The main bodies of the brackets lie against the sides of the posts and are provided with arms F F at right angles thereto and secured to the rear of the posts by screws.

Pins G project laterally from brackets upon which are the pivoted arms H, the rear ends I of which project beyond the pins and are connected with one end of a spiral spring J, which is connected at its opposite end to the bracket E, whereby the normal tendency of said spring is to throw the arm H into a raised position, as shown in Fig. 2, in which position the canopy will be raised off the bed and draped down in front of the headboard. Arms H′, secured in sockets H^2 in arms H, are connected by a cross-rod K, to which the canopy is secured, and from the points of junction with the arms and cross-rod a cord or flexible wire L extends, a pin M being provided in the footboard, upon which to attach said wire or cord to hold the arms in their outward position, as clearly shown in Fig. 1, in which position the net is extended to drape over the bedstead.

A single piece of rod or heavy wire is bent to form a loop 11 and laterally-projecting arms O O, said arms being in line with each other. By a single screw P, passed through the loop into the headboard of the bed, (see Fig. 1,) the device is adjustably secured in position, the arms O forming an adjustable support for the head end of the canopy.

The foregoing description is of the complete frame when intended for attachment to wooden bedsteads. The brackets will be so constructed as to clamp around the posts and be secured thereon by means of suitable

clamp-bolts and are designed to be vertically adjustable upon the posts and securely held in any suitable adjusted position.

The operation of my invention will be readily understood from the foregoing description, from which it will be evident that the spring J, exerting its pull upon the projecting ends I of the arms H, will tend to hold them normally in their vertical positions, as before described, and that in said positions the canopy will be held suspended in front of the headboard and out of the way of the person desiring to adjust the bedclothing or make up the bed. To drape the canopy in position over the bed, it is only necessary to draw it down into its proper position by means of the cord L and slip the cord over the pin M in the footboard.

In attaching the brackets to the bedstead they should be properly placed as to height to permit the canopy to drop low enough around the bed to prevent the entering of mosquitos, flies, or other winged insects.

It will be observed that a canopy supported upon my improved frame will be stretched all around the bed, as well as above it, leaving no folds or draperies to obstruct the passage of air for proper ventilation, the top of the canopy permitting the escape of the air heated by being inhaled and exhaled by the person sleeping in the bed.

While I have illustrated and described the best means now known to me for carrying out my invention, I do not wish to be understood as restricting myself to the exact details of construction shown and described, but hold that any slight changes or variations such as might suggest themselves to the ordinary mechanic would probably fall within the limit and scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a canopy frame or bracket adapted to rest against the side of the head-posts, provided with transversely-projecting angular arms to rest against the rear of the bed-posts, and a pivot-pin at the outer end of the bracket in combination with a supporting-arm for the canopy-frame pivoted thereon, having a curved inner end projecting beyond the pin, a spiral spring connected at one end with the curved projecting end of the supporting-arm and at the other end with the bracket, and means for attaching the bracket to the bed-post.

2. In a canopy-frame, the combination with a pair of brackets E provided with arms F at right angles thereto, laterally-projecting pins secured on said bracket, arms H pivotally secured on said pins, the rear ends of which project beyond the pins and are curved, terminating in hooks, spiral springs connected to the respective brackets and the hooks of the arms, arms secured to the arms H in front of the pivotal points thereof, and cords connected thereto for the purpose of holding the same against raising, substantially as described.

WILL J. DURHAM.

Witnesses:
W. W. LEE,
J. A. DURHAM.