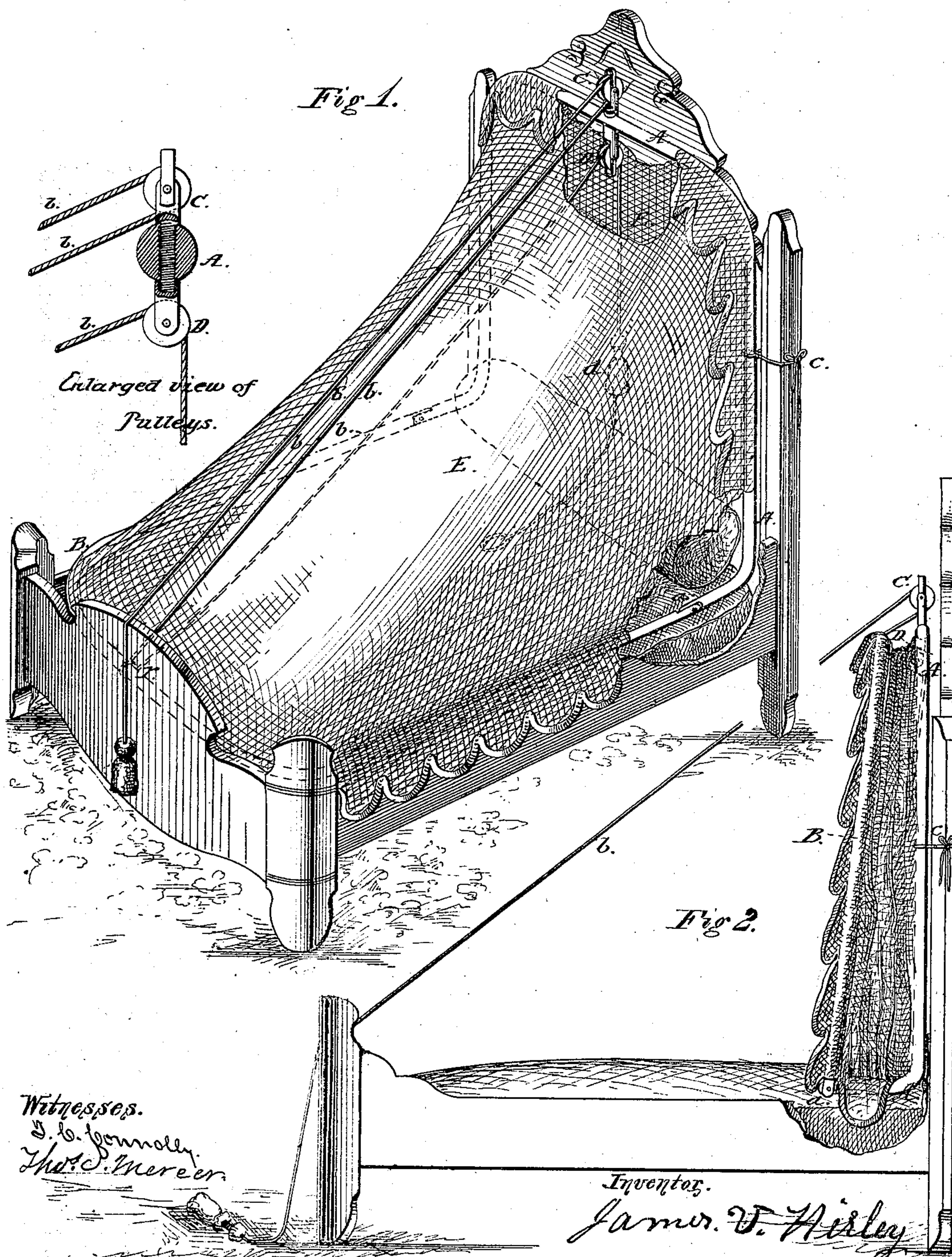


J. V. HIRLEY.

Improvement in Insect-Bars.

No. 129,476.

Patented July 16, 1872.



UNITED STATES PATENT OFFICE.

JAMES V. HIRLEY, OF CINCINNATI, OHIO.

IMPROVEMENT IN INSECT-BARS.

Specification forming part of Letters Patent No. 129,476, dated July 16, 1872.

SPECIFICATIONS.

Specifications describing certain Improvements in Mosquito or Insect Bars, invented by J. V. HIRLEY, of the city of Cincinnati, county of Hamilton, State of Ohio.

My invention relates to an improvement in the manner of constructing and arranging the net-frame, with certain devices connected therewith to facilitate the operation of the same. It consists of a frame made of metal or other suitable material, composed of two parts secured together loosely to form a compact and convenient folding device, having attached to it pulleys and cords arranged within easy reach of the occupants of the couch over which the netting is spread.

Description of Drawing.

Figure 1 is a perspective view of the net as applied to the bedstead when in use; Fig. 2, side elevation, showing the net drawn up as when not in use.

General Description.

B is the bow, which is intended to fit within the side rails and foot-pieces of the bedstead and snugly over the mattress and bed-clothing, so as to exclude mosquitoes, flies, and other winged insects, which disturb the repose of persons while resting. To the ends of the bow B is hinged the upright bow A, which has its ends bent at right angles, so as, when attached to the horizontal bow B, it forms a continuous rod, following, when open, the outlines of the bedstead within the rail about which the net is to be used. In the middle of the head of the bow A I secure the upper and lower pulleys C D. I secure the upper pulley to the bow by attaching the clevis-rod into it, the screw having double the length of the diameter of the bow. This screw also forms a hold for the clevis-rod of the pulley D. These pulleys are not indispensable to the invention, as they merely lessen friction for the cord which is handled to hoist the netting. A simple ring or hook might be used as a substitute for them. The hoisting-cord *b* passes over pulley D down to the middle of the horizontal

bow B, and is secured to it tightly at *r*. The cord extends back again to pulley C, over the same, and down again to the foot of the bed, hanging over it toward the floor. The netting E is composed of the ordinary netting material, and is fitted snugly to the form of the bows, as seen in Fig. 1, covering the back of the frame as well as the front, to exclude insects.

One peculiarity of my device is in its arrangement with reference to the bedstead. It is secured with simple cords, which are fastened to the bow A on either of its vertical arms, which are tied around the head-posts of the bedstead. Neither screws nor bolts are used in attaching it, as is the case with most nets, much to the abuse of the furniture. Another peculiarity in my device is the exceeding ease with which it is handled when in use. The person on retiring, finding the net down, has only to draw the cord *b* resting on the foot-board, when the net is hoisted back, as seen in Fig. 2. In this position it forms a neat and ornamental drapery to the head-board.

It will be observed that the bow B, when back, has its head inclined toward the head-board of the bedstead, so that it is kept in its place by its own gravity. The bent ends of the bow A are of a length just sufficient to allow the bow B to be within reach of the hand of the person occupying the couch, so that the arm has only to be extended to overcome the weight of the bow, in order that the net may be adjusted to its place over the bed.

When it is desirable that the net be raised, the occupant of the bed has only to reach for the tassel *d* attached to the cord *b* and draw down, when the bar will be lifted with the cord to its place against the head-board of the bed.

I am well aware that mosquito-bars have been invented having a form somewhat similar to mine, but with a third bow, which is additionally expensive and more clumsy, they being, at the same time, without the hoisting device for which I claim novelty. Other objections are found in these from the manner in which they are secured to the bedstead. With my device one has only to draw the two knots

c, and the whole thing may be lifted from the bedstead and placed against the wall while the bed is being made up.

Claims.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The frame composed of the bows A and B, loosely jointed or hinged together at a, in combination with a netting forming a detach-

able insect-bar, as shown and described, for the purpose set forth.

2. The hoisting device composed of the cord b, pulleys C and D, in combination with the detached bar composed of the frame A B and netting E, as and for the purpose set forth.

JAMES V. HIRLEY.

Witnesses:

T. C. CONNOLLY,
THOS. S. MERCER.