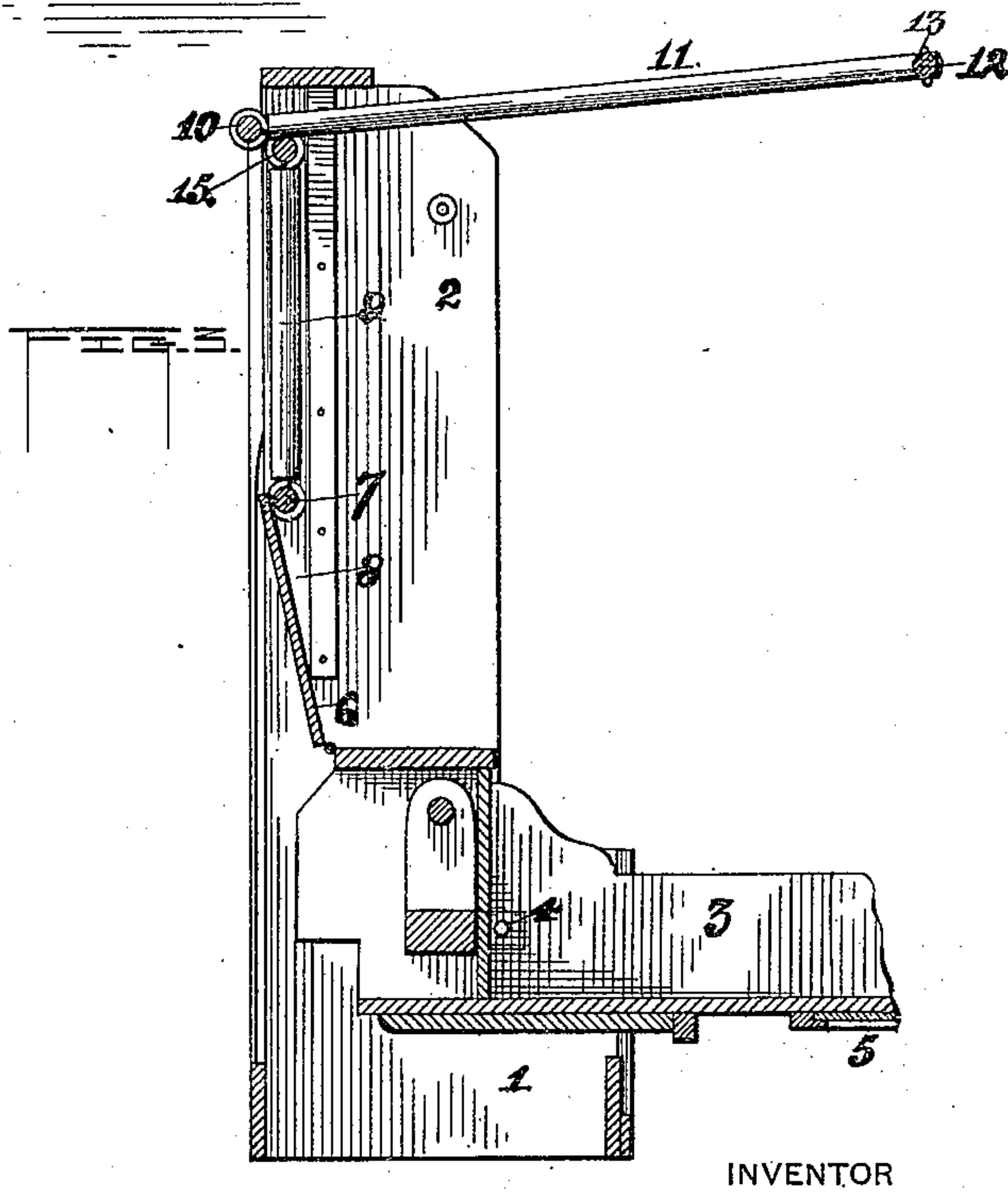
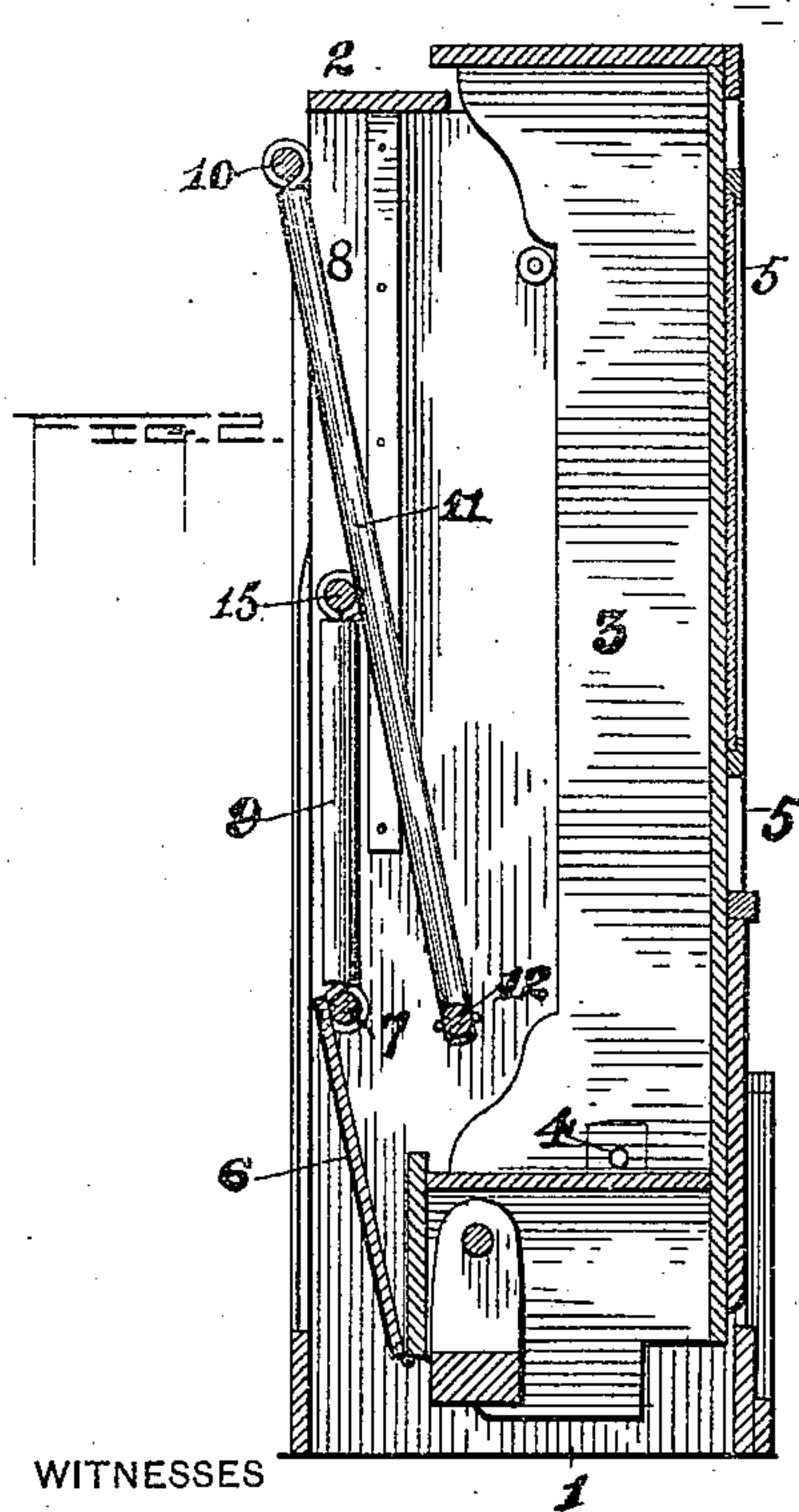
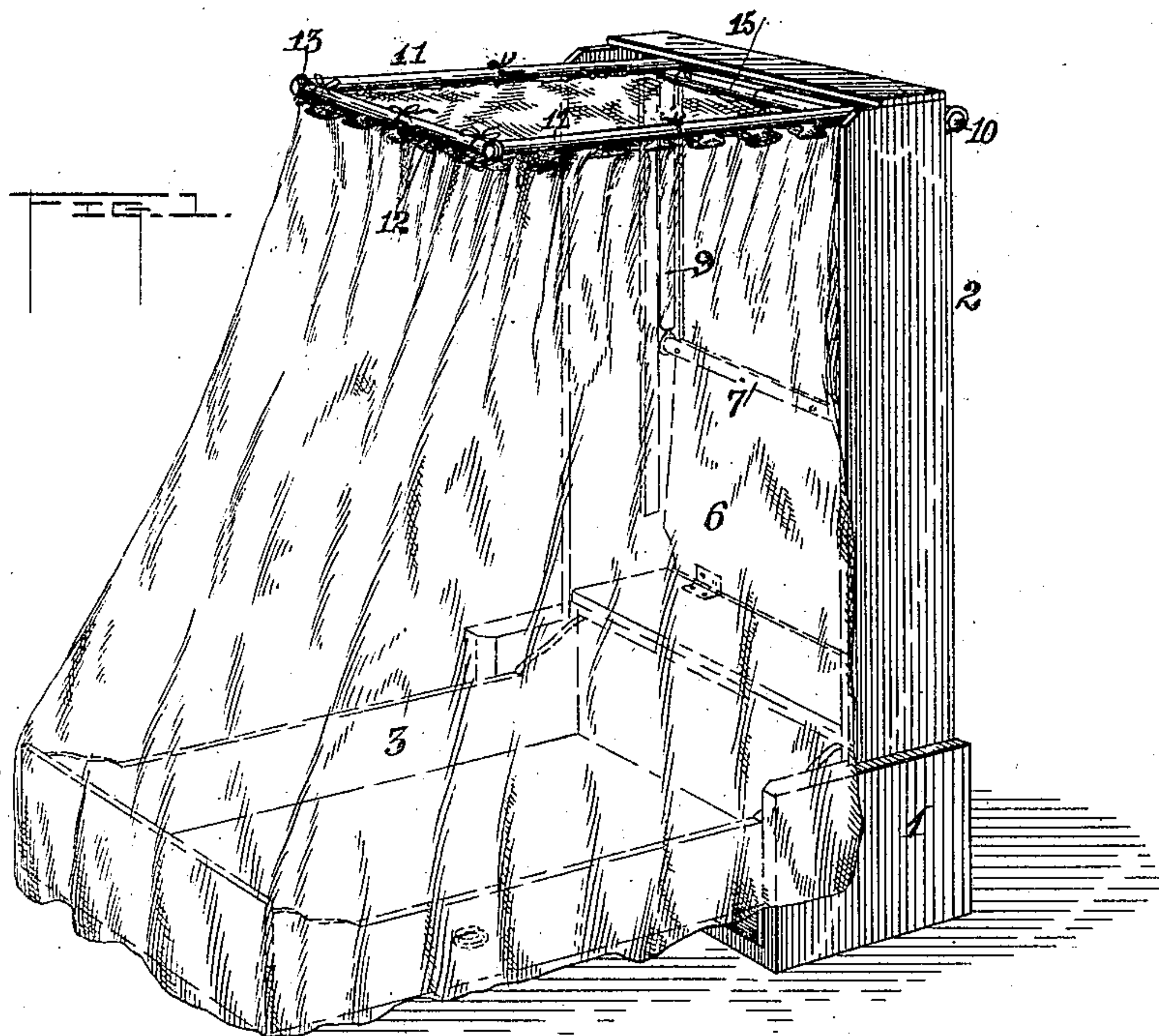


(No Model.)

A. H. EVA.  
MOSQUITO CANOPY.

No. 467,163.

Patented Jan. 19, 1892.



*Witnesses.*  
*Geo. L. Clark*

*Addison H. Eva*  
*by F. B. Brock*  
*Atty*



# UNITED STATES PATENT OFFICE.

ADDISON H. EVA, OF AUSTIN, TEXAS.

## MOSQUITO-CANOPY.

SPECIFICATION forming part of Letters Patent No. 467,163, dated January 19, 1892.

Application filed May 11, 1891. Serial No. 392,293. (No model.)

*To all whom it may concern:*

Be it known that I, ADDISON H. EVA, a citizen of the United States, residing at Austin, in the county of Travis and State of Texas, have invented certain new and useful Improvements in Mosquito-Canopies; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Figure 1 is a perspective view of a folding bed to which my improvements have been applied. Fig. 2 is a vertical sectional view showing the folding bed closed. Fig. 3 is a similar sectional view showing the bed open and partly broken away.

The invention relates to mosquito-canopies.

The objects of my improvements are to provide a folding bed with a mosquito net or canopy which will automatically fold up within the bed when the latter is folded and which will in like manner unfold and come into position over the bed when the latter is let down. To do this in a simple, cheap, and efficient manner is the object of my invention.

The invention therefore consists in the following construction and combination of parts, which will first be fully described in detail, and the features of novelty believed to be new then set forth in the claims.

In the drawings a folding bed is shown, in which 1 is the base or stationary part.

2 is the stationary bed-casing and outer vertical frame of a folding bed.

3 is the folding bed-frame proper, and 4 the pivots upon which it works.

5 represents the usual paneling and glass of the wardrobe style of bed.

6 is the movable head-board, hinged to the movable bed-frame and adapted to be raised when the bed is down and lowered when the bed is folded up.

7 is a rod extending across the top of the head-board and moving therewith.

8 are guideways formed in each side of the upright bed-casing, within which the projecting ends of the rod 7 enter and work.

9 are two vertical rods pivotally connected at their lower ends to the extremities of the rod 7.

10 is still another rod attached at each end

to the upper rear edge of the stationary bed-casing in suitable eyes or bearings.

11 are two rods attached by eyes or other pivotal fastenings to the rod 10, as shown, at right angles thereto. These rods 11 form the sides of the canopy-top frame.

12 is a rod connecting the outer ends of the rods 11, forming one end of the canopy-top, and 13 are the screw-eyes making such connections.

The guideways 8 extend from the lowest position of the upper portion of the head-board 6 to the upper end of the bed-casing 2 along the rear edge thereof. The canopy or netting is attached in the usual way to the rods forming the canopy-top.

15 is a rod attached to and connecting the upper ends of the two vertical rods 9, the ends of which work in the vertical guideways 8, and it is to this rod that the rear of the netting is fastened.

When the bed is folded up, the head-board is down, and the rods 7, 9, and 15 are also depressed. The rods 11 and 12 hang down also upon the pivotal rod 10 within the folded bed. When, however, the bed is lowered or unfolded, the head-board is raised, causing the rods 7, 9, and 15 to move vertically upward in the guideways 8. The upward movement of the rod 15 causes it to impinge against the sides of the canopy-rods 11, causing them to swing upward into position upon the pivotal rod 10 and to be there held until the bed is folded, which causes the automatic folding again of the canopy.

Where my invention is applied to beds having no movable head-board, I attach the rods to the movable bed-frame itself, so as to operate in a similar manner. Where, also, beds are provided with a back to the bed-casing, the rod 10 may be hung operatively within the casing. In like manner I may modify my construction so that my improvements may be applied to any style of folding bed.

As before stated, the rear of the canopy-top netting is secured to rod 15 and the front to rod 12. It will be observed that when the canopy is folded the rods 12 and 15 are nearer to each other than when the device is unfolded. This construction enables me to attach the canopy-top netting to said rods in



a loose manner, the unfolding of the bed causing the netting to become distended by the recedence of the rods from each other. The strain upon the netting consequent to canopy-tops which are permanently stretched is obviated, and, what is of more value, the canopy may be taken off and put on the frame by unskilled hands for laundering or repairs, owing to the peculiar construction heretofore pointed out.

I am aware that folding umbrella-top canopies have been long in use. Such constructions I do not claim.

Another advantage is that the rod 15, which is the highest point to which the canopy is attached, is, when the canopy or bed is folded, brought down to a point where the netting may be reached for the purpose of taking it off or replacing the same through the back of the bed.

I claim furthermore—

1. The combination of a bed-casing, a canopy-frame hinged thereto, a folding bed-frame, a raising-frame hinged thereto pro-

vided with a horizontal bar constituting the rear side of the canopy-frame and having a sliding contact with said canopy-frame, means for guiding said raising-frame, and a netting attached to the canopy-frame and to said horizontal bar, substantially as herein shown and described.

2. The combination of a bed-casing, a canopy-frame hinged thereto and adapted to fold downwardly when closed, a raising-frame hinged to the folding bed-frame, provided with a horizontal bar constituting the rear side of the canopy-frame, having a sliding contact with said canopy-frame, and also adapted to be lowered when the bed is closed, and means for guiding said raising-frame, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

ADDISON H. EVA.

Witnesses:

H. G. WICKES,  
W. C. VALENTINE.