D. Winder,

Bed Bottom,

No. 25,780. Patented Oct. 11, 1859.

Fig. 1.

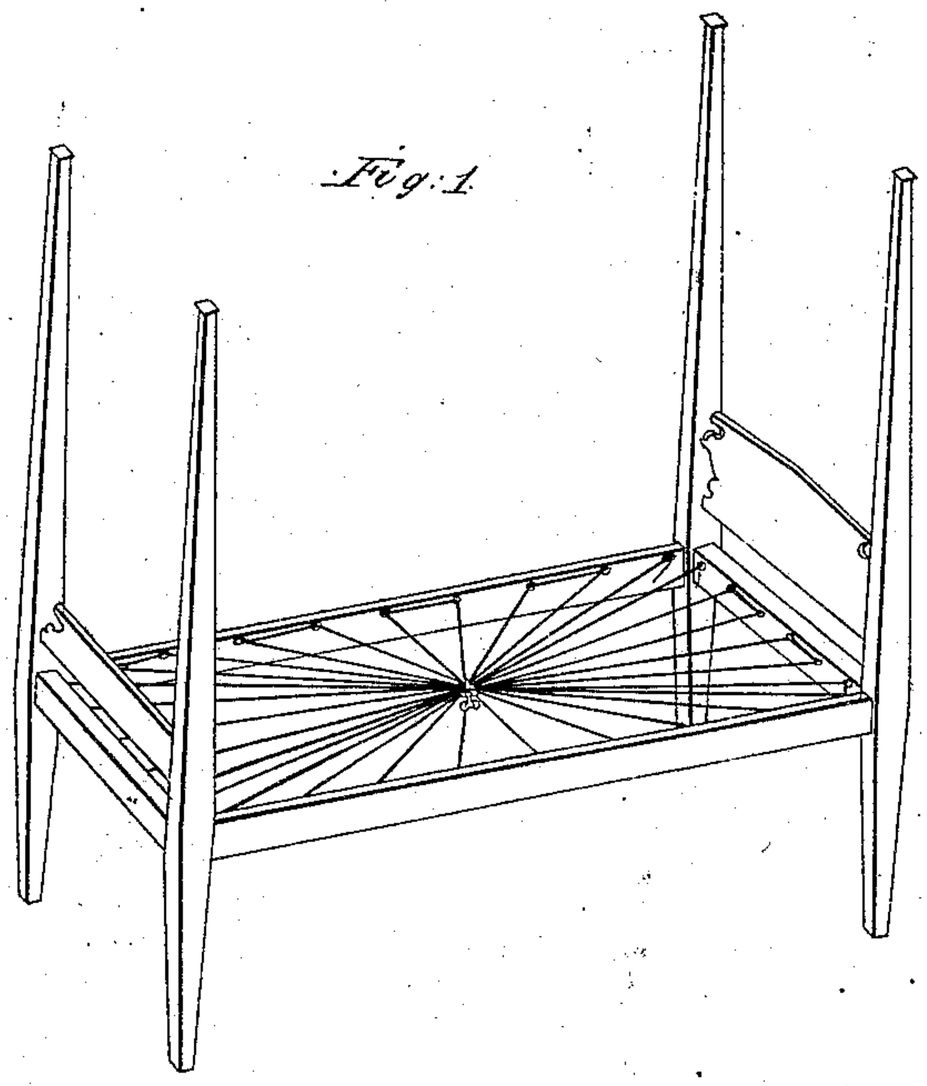


Fig. 2.

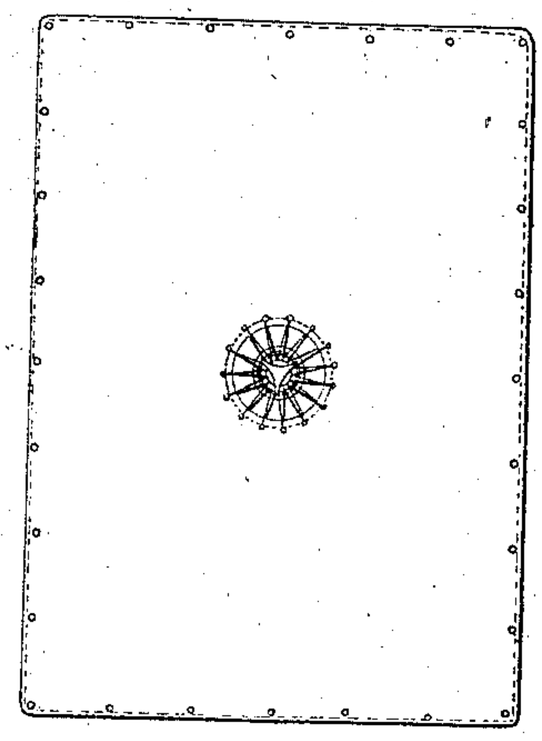


Fig. 3.

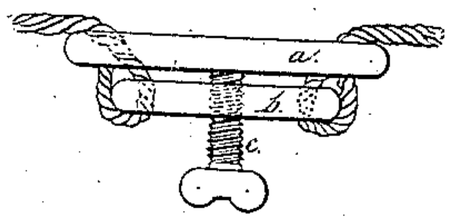
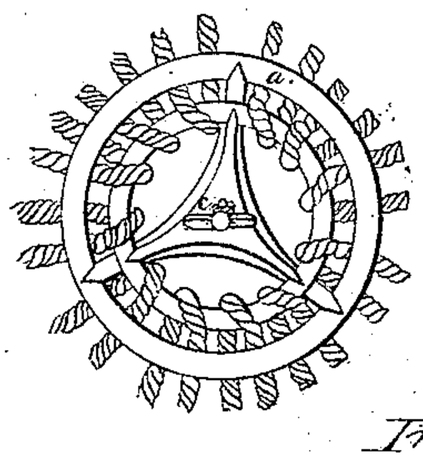


Fig. 4.



Witnesses;
William H. Johnston
Francis Millward.

Inventor;
Daniel Winder.

UNITED STATES PATENT OFFICE.

DANIEL WINDER, OF CINCINNATI, OHIO.

BED-BOTTOM.

Specification of Letters Patent No. 25,780, dated October 11, 1859.

To all whom it may concern:

Be it known that I, DANIEL WINDER, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Bed-Bottoms; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification.

My invention relates to the class of bed bottoms whose web or cording is gathered radially from all sides to a center ring and consists in an appliance or provision for the cheap effective and easy straining of the cord or webbing. The elasticity, strength, uniform tension and other obvious advantages incident to the radial arrangement, would it is believed have caused its more general adoption, but for the cumbersomeness, expense and inconvenience of the devices proposed for securing the attachment, and proper tension of the cord, objects accomplished in the present invention by means which involve no new appendage to the ordinary bed-stead nor any material weight to the bottom.

In the accompanying drawings, Figure 1 is a perspective view of a bed-stead, corded in the improved mode, with the apparatus for tightening the cord attached. Fig. 2, is a top view of a sacking-bottom with the apparatus attached. Fig. 3 is an edge or side view of the apparatus for drawing the cord or sacking bottom consisting of two rings *a* and *b* and a straining screw *c*. Fig. 4, is a bottom view of the same.

The rings *a* and *b* have bearings or hubs in their centers, supported by spokes or arms. These rings are made of iron, or any other metal of sufficient strength. The cord is passed from the point of its attachment to the rail of the bed-stead over the ring *a* then around the ring *b* then back again over the ring *a* to the next point of attachment to the rail; and so on until the bedstead is corded. The screw *c* is then screwed through the hub of the ring *b*, its point resting in a counter-sink on the lower side of the hub of the ring *a*, so that by turning the screw *c* the ring *b* is drawn downward, drawing all the turns of the cord with it, thus producing at once a uniform tension throughout the whole cord.

In attaching the apparatus to a sacking-bottom as will be seen in Fig. 2 the center of the sacking is cut out and a strong cord is hemmed in around the inner edge. Around this cord the cord which connects the apparatus to the bottom is passed by means of eyelets in the sacking instead of passing to a point of attachment in the rail, as in the case of an ordinary bed cord. The sacking bottom is then stretched, and kept in proper tension in the manner before described.

By the foregoing improvement over the customary corded bed stead the following advantages are gained. By the radial arrangement of the cord, and its focal attachment or connection in the center of the bed, a much greater support is obtained at that point, on account of the proximity to each other in the middle of the bed as it will be seen that at the point in the bed where the pressure is principally applied when occupied, the support of the cords is four fold that in the ordinary mode. The pressure or strain on the cord is equalized, as every turn of the cord is attached to the rings no part of it can sink without bringing into requisition the resistance of the whole cord.

By means of this apparatus a bed-cord or sacking bottom can be stretched or tightened in less time and with less labor than by the ordinary mode: and without any lateral disturbance of the cords.

This appliance is extremely light, imposing no perceptible burden upon the cords or bottom. It requires no unsightly appendage to the common bed-stead. Its cost is small and its durability very great.

I claim as new and of my invention herein and desire to secure by Letters Patent:

The combination of the rings *a* and *b* and tension screw *c* operating in connection with a radial bed-cord, or webbing in the manner and for the purpose set forth.

In testimony of which invention, I hereunto set my hand.

DANIEL WINDER.

Witnesses:
GEO. H. KNIGHT,
WILLIAM H. JOHNSTON.