O. BREWSTER.

SPRING BED-BOTTOM.

No. 193,218. Patented July 17, 1877.

Fig 1

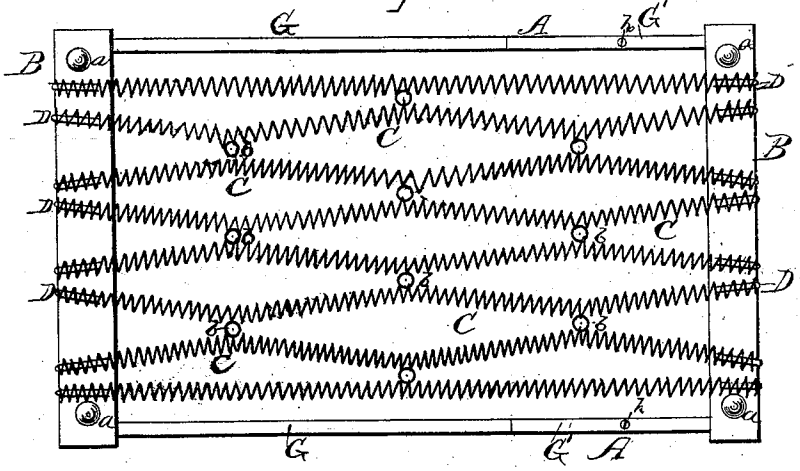


Fig 2

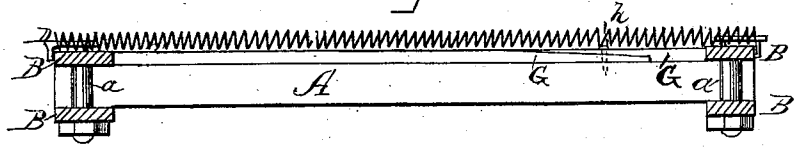


Fig 3

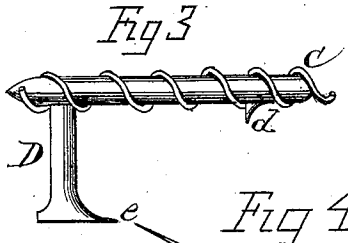
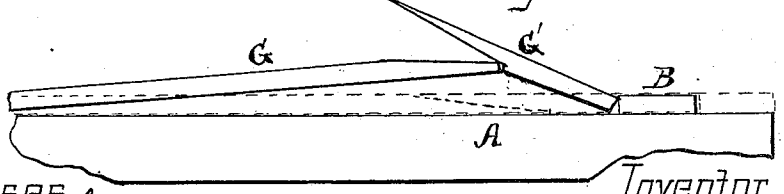


Fig 4



Witnesses

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UNITED STATES PATENT OFFICE.

ORVILLE BREWSTER, OF WARREN, PENNSYLVANIA.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **193,218**, dated July 17, 1877; application filed January 17, 1877.

To all whom it may concern:

Be it known that I, ORVILLE BREWSTER, of Warren, in the county of Warren and State of Pennsylvania, have invented certain new and useful Improvements in Spring Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which forms part of this specification.

The nature of my invention consists in the construction and arrangement of a spring bed-bottom, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view of my improved spring bed-bottom. Fig. 2 is a longitudinal section of the same, and Figs. 3 and 4 are detailed views of parts thereof.

A A represent the two side rails of my spring bed-bottom. On top and bottom of these side rails, near each end, are placed cross-bars B B, which are connected by means of bolts *a a*, passing vertically through them immediately inside of the side rails.

The top cross-bars B B, at the ends of the side rails, are connected by spiral springs C C, and these springs are connected, at suitable intervals, by links *b b*, arranged alternately, as shown, so that when the springs are stretched the entire bed-bottom will form a series of diamond-shaped figures.

The springs C are connected with the top cross-bar B by means of L-shaped hooks D, inverted, as shown. The upper horizontal arm of the hook is provided on its under side with a spur, *d*, and said arm is passed or screwed into the end of the spring, and the spur *d* enters the top of the cross-bar. On the lower end of the vertical arm of the hook is another spur, *e*, which enters the outer side of the said top cross-bar, when said cross-bars are pushed outward by means hereinafter described.

On top of each side rail A are placed two overlapping levers, G G, which, when pressed down upon the rail, force the cross-bars B outward, stretching the springs C. These levers are fastened by a single screw, *h*, to the side rail. The act of forcing outward the cross-bars and stretching the springs forces the spurs of the hooks into the cross-bars, so as to hold them firmly.

By removing the screws *h* the levers G can be raised and the entire bed-bottom separated for shipment, so that it can be packed in very small compass.

The tension of the springs C can be easily regulated by loosening the bed-bottom and turning the hooks D to the right or left, so as to screw the same farther in or out in the springs, the spurs *d* forming the teeth, which pass through and hold the springs.

The levers G G on top of each side rail A have their outer ends square, while their inner ends are made beveled, so as to overlap each other, and at the inner end of each such bevel or incline is a square shoulder, as shown. In placing these levers in position their outer ends abut against the inner edges of the top cross-bars B, and the inner end of one lever bears against the square shoulder on the other. By now pressing the inner ends of the two levers down onto the side rail the levers are straightened, the cross-bar B forced outward to the ends of the side rails, and thereby stretching the springs C C. When the overlapping ends of the levers are together fastened to the side rail by the screw *h*, the parts are thereby held in proper place, but can, nevertheless, be quickly and easily separated when required.

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

1. The L-shaped hook D, provided with the spurs *d* and *e*, for regulating the tension of the springs and entering the top and rear of the cross-bars B, as and for the purposes herein set forth.

2. The combination of the bars B, springs C, connected at alternate intervals by links *b*, and hooks D, provided with spurs *d* and *e*, constructed and arranged substantially as and for the purposes herein set forth.

3. In a spring bed-bottom, the combination of the side rails A A, having connected top and bottom cross-bars B B at each end, movable thereon, the springs C C, connecting the two sets of cross-bars, and the overlapping levers G G, for stretching the springs and holding the cross-bars at the proper distance apart, substantially as set forth.

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

ORVILLE BREWSTER.

Witnesses:
WM. H. MACDONALD,
D. J. HODGES.