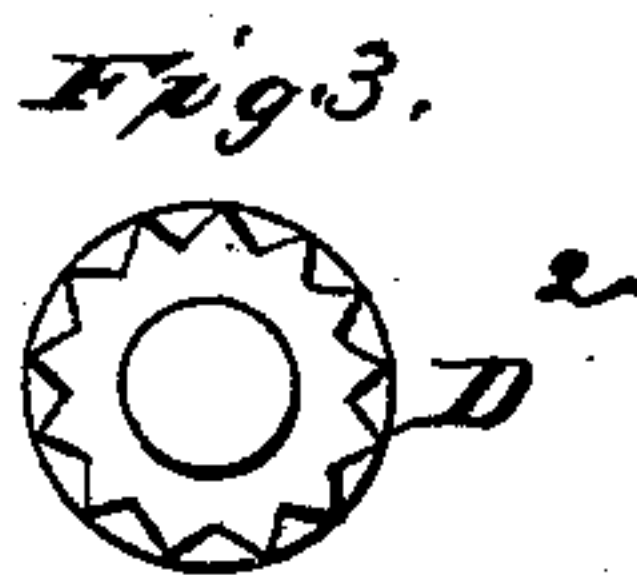
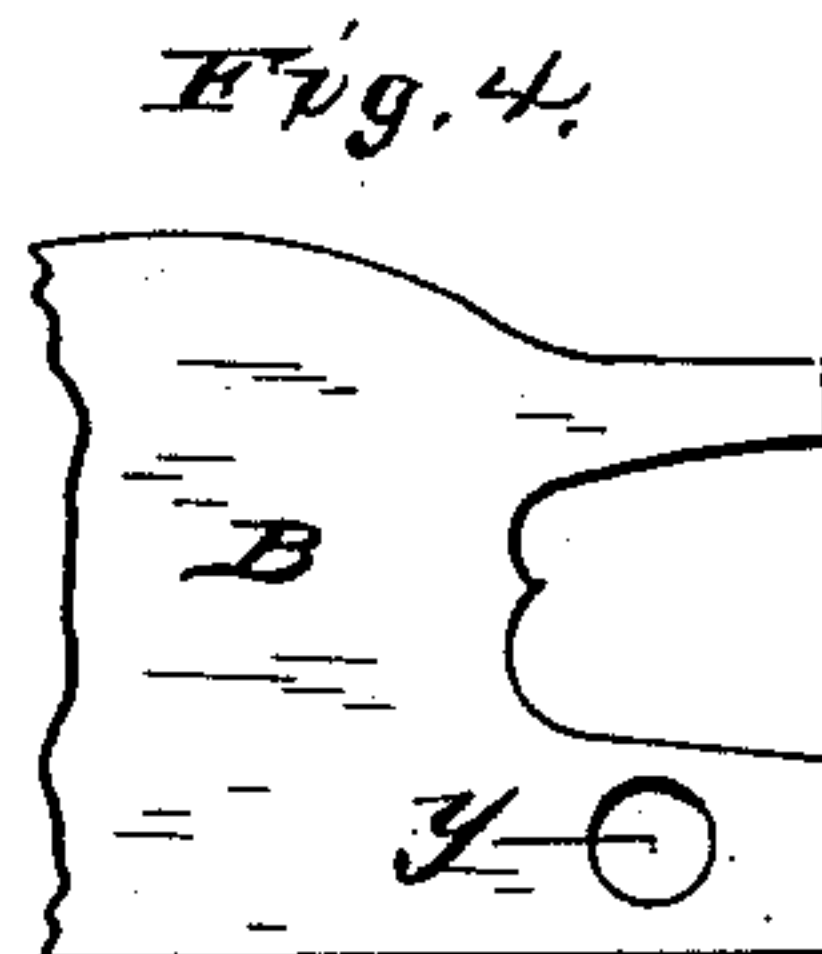
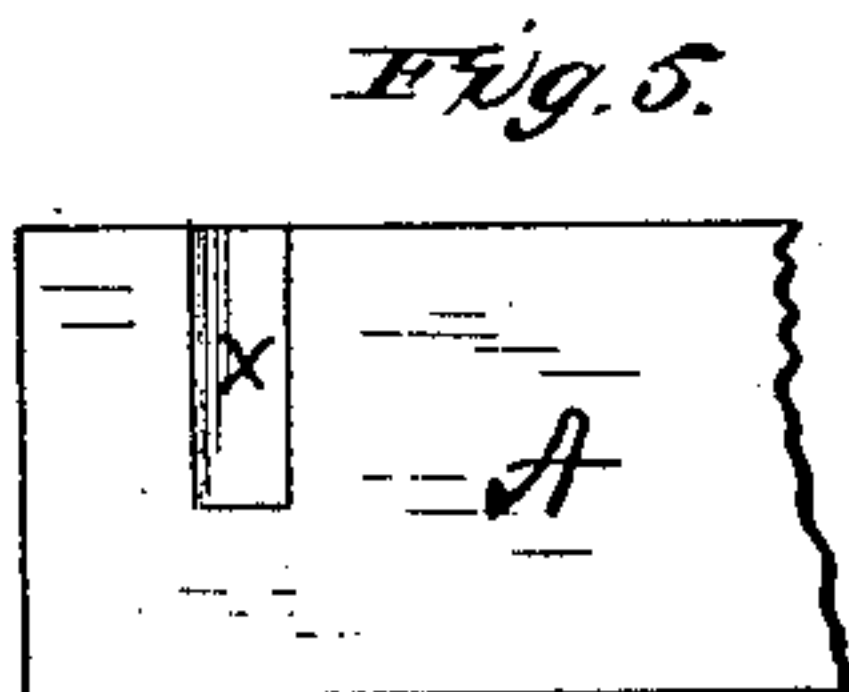
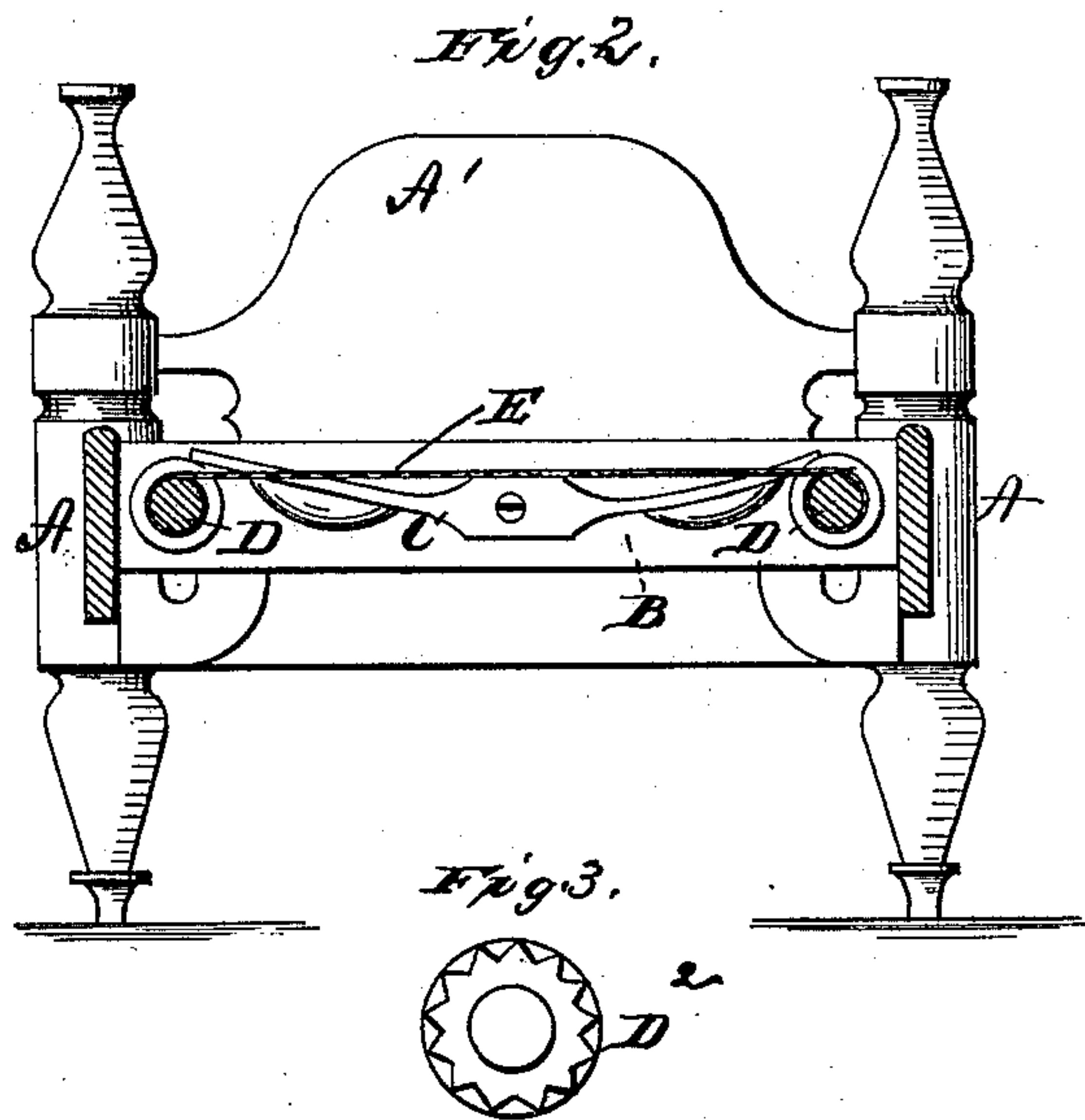
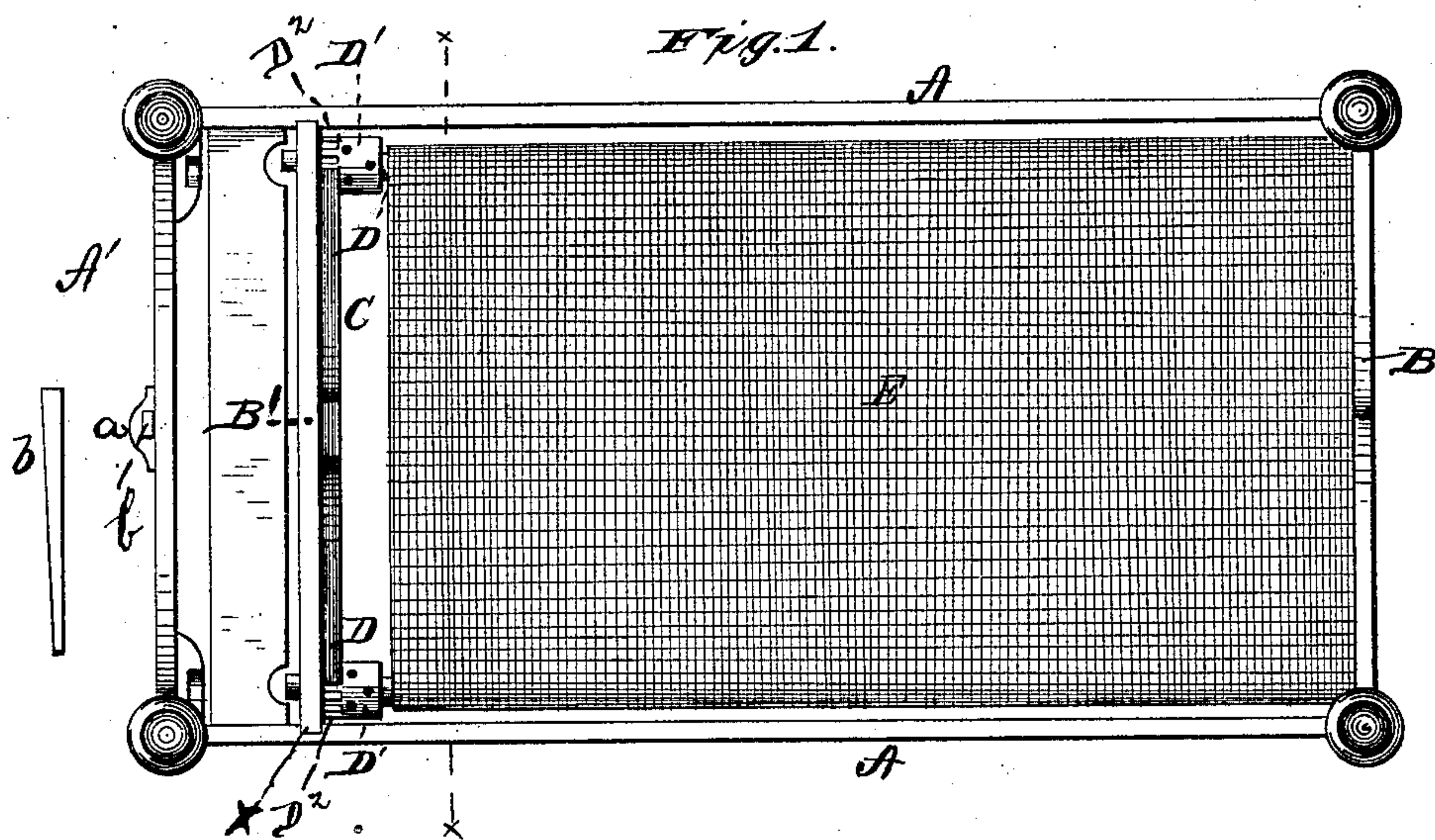


D. SWARTZ.  
Bed-Bottom.

No. 210,368.

Patented Nov. 26, 1878.



WITNESSES  
*A. L. Conrad*  
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By

INVENTOR  
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*Alexander Watson*  
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# UNITED STATES PATENT OFFICE.

DAVID SWARTZ, OF WOODSTOCK, VIRGINIA.

## IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **210,368**, dated November 26, 1878; application filed May 29, 1878.

*To all whom it may concern:*

Be it known that I, Dr. DAVID SWARTZ, of Woodstock, in the county of Shenandoah, and in the State of Virginia, have invented certain new and useful Improvements in Bed-Bottoms; and 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, making a part of this specification.

My invention relates to bed-bottoms; and consists of devices for keeping the cords or cloth on the same in proper position, as hereinafter more fully set forth.

In the accompanying drawings, forming a part of this specification, Figure 1 represents a plan view; Fig. 2, a cross-section taken through line *x x*, Fig. 1; Fig. 3, a view showing one of the ratchets on one end of the rollers; Figs. 4 and 5, broken views of the side rail and foot-board.

A represents the side rails of a bedstead; A', the head-board, and B the foot-board. The inner faces of both side rails, near the head-board, are provided each with a vertical groove, *x*, extending from the top a suitable distance toward the bottom edges of the rails, as seen in Fig. 5. Near the lower part of the foot at each end is a circular recess, *y*, the object of which will be hereinafter set forth.

The bed-bottom consists of two rollers, D D, of a length to suit the bed-frame. These rollers have enlarged beads at one end, and are provided with ratchet-teeth D<sup>2</sup>, as seen in Fig. 3. The heads are also provided with openings D<sup>1</sup>, to allow a pin or bar to be inserted for rotating them. Both rollers are journaled in a cross-piece, B', on the face of which is a spring, C, which has its two ends acting upon the two ratchets D<sup>2</sup> D<sup>2</sup>. This spring acts as a double pawl to prevent both rollers from turning inward and slacking the canvas bottom.

E represents a cloth or a series of ropes, which is connected to the two rollers. On the back of the head-board A' is a pocket, *a*, within which is kept the pin or bar *b*; which is used for turning the rollers.

It will be seen that the foot ends of the rollers are inserted in the holes *y* in the foot-board, while the cross-piece B' lies in the grooves *x* in the side rails.

By thus connecting the bed-bottom to the frame the former can be readily detached from the latter, and the holes in the foot-board form bearings for the foot ends of the rollers to revolve in.

As the cords or cloth E become ragged the pin *b* is inserted in one of the holes in the head of the roller and the roller turned as far as necessary, so as to take up the slack. The double spring-pawl holds the rollers in position as each partial turn is made. The slack may be taken up by using the pin in one roller or in both rollers alternately.

I do not broadly claim a bed-bottom composed of a flexible sheet connected to two parallel rollers, for taking up the slack in the sheet.

Having thus fully described my invention, what I claim is—

In combination with the bed-frame provided with the vertical grooves *x x* in the side rails near the head, and circular recesses *y* in the front board, the readily-detachable bottom, consisting of the rollers D D, provided with pierced blocks D<sup>1</sup>, having ratchets D<sup>2</sup>, and journaled into the cross-piece B', the double-acting spring C, and the flexible sheet E, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of April, 1878.

D. SWARTZ.

Witnesses:

H. AUBREY TOULMIN,  
JNO. H. GRABILL.