

E. S. Taylor,
Bedstead Fastening,
N^o 9,604. Patented Mar. 1, 1853.

Fig. 2.

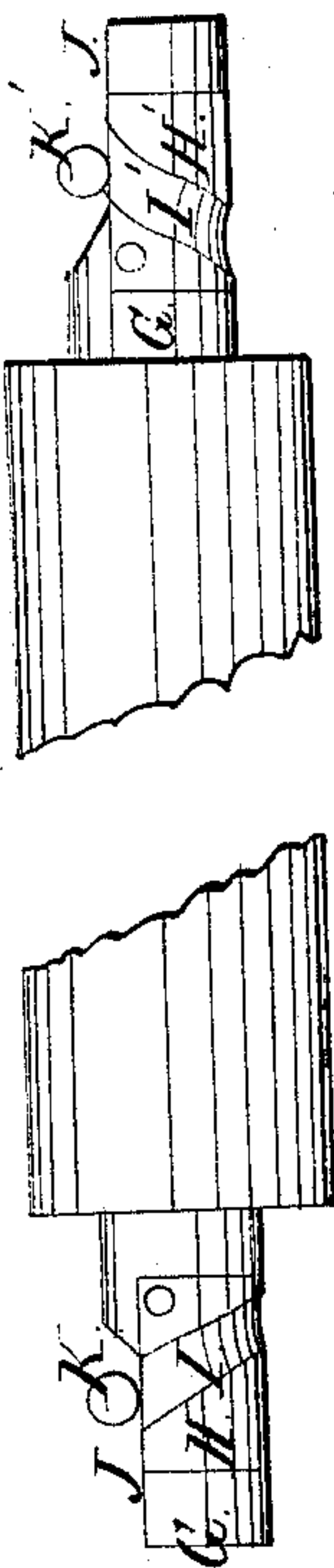


Fig. 1.

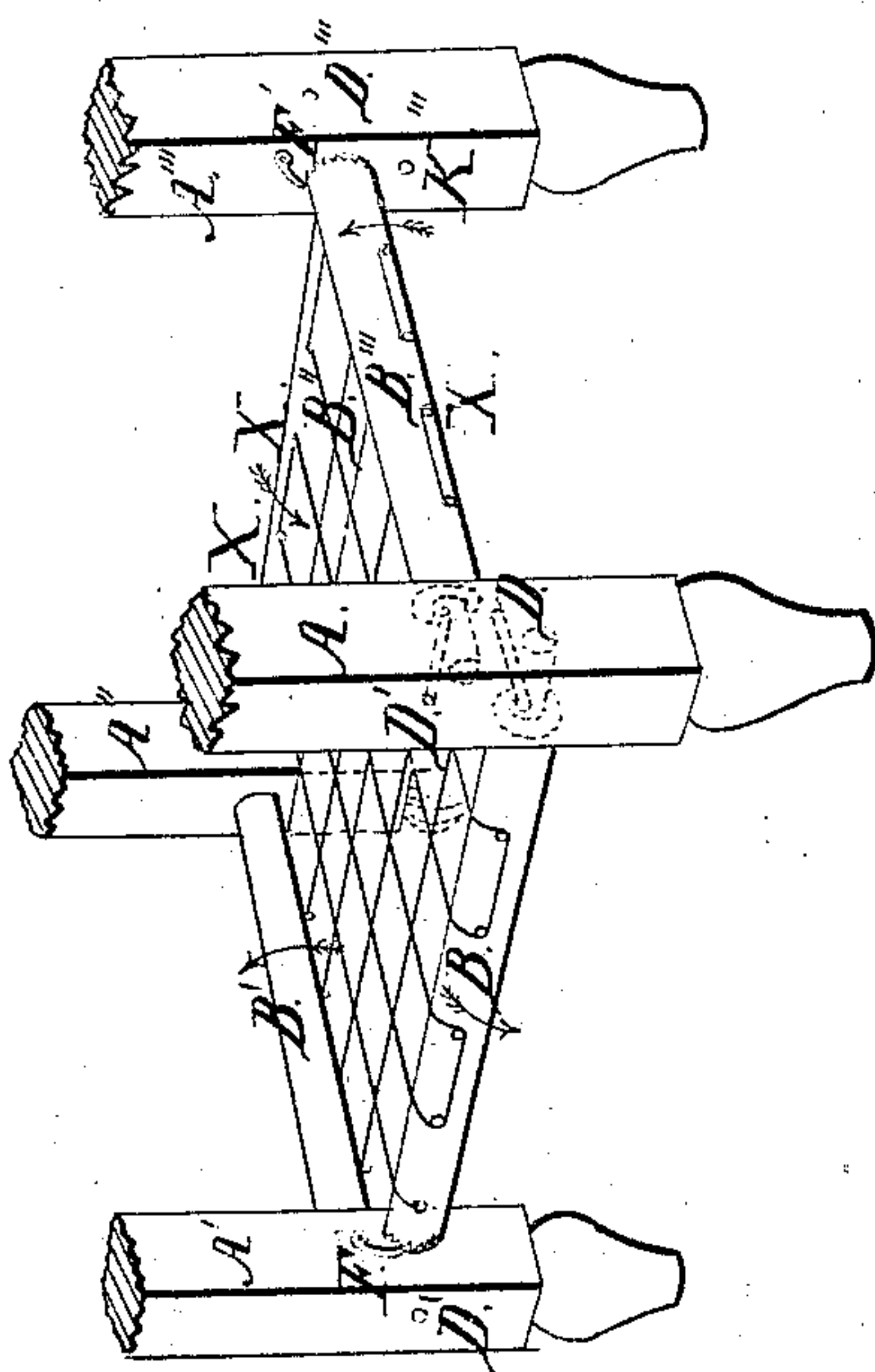


Fig. 3.

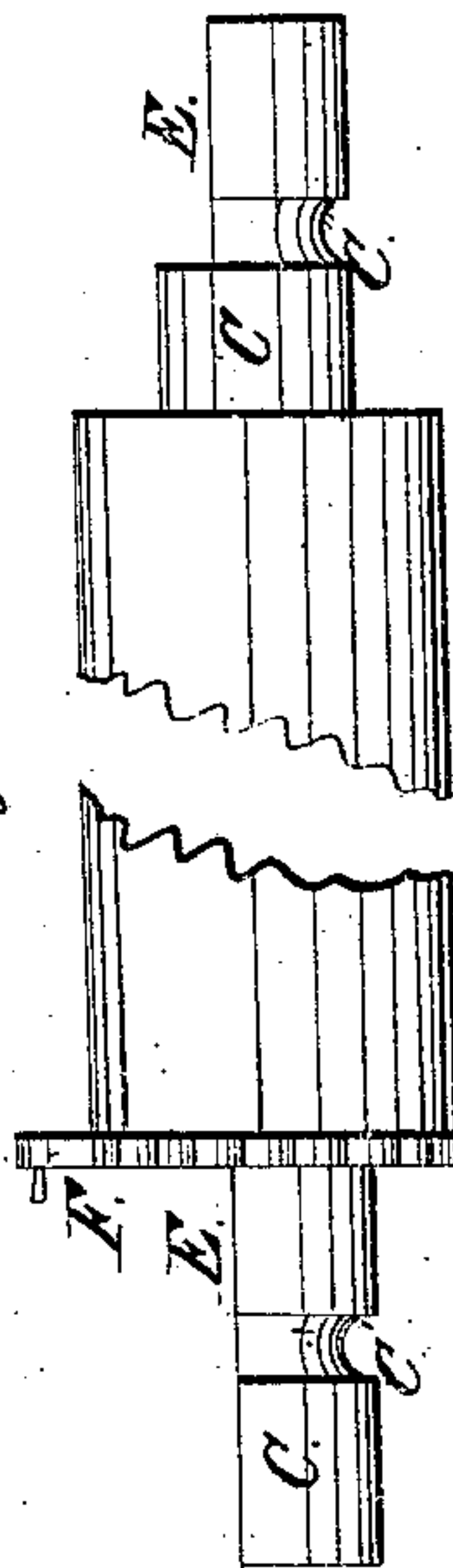


Fig. 4.

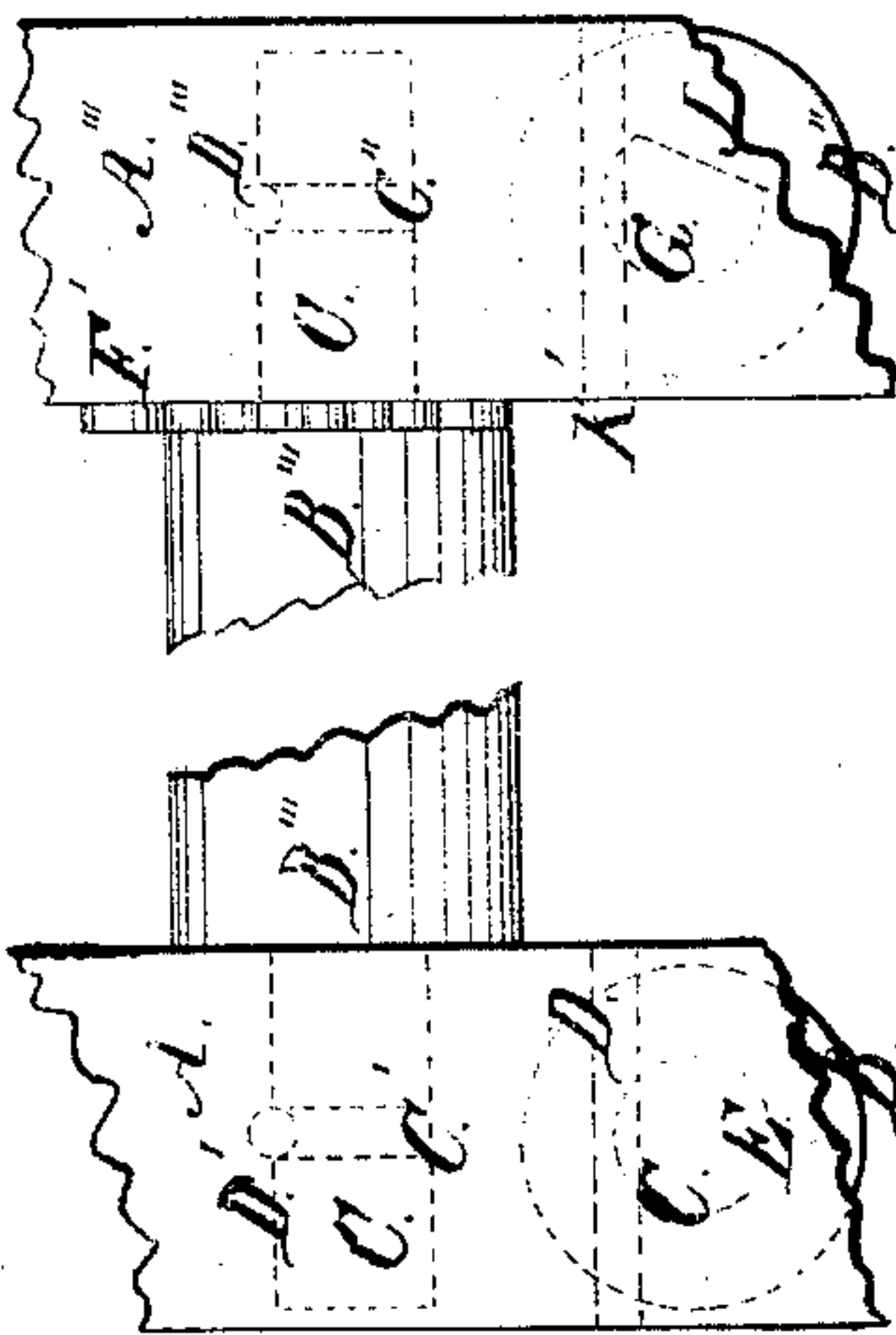
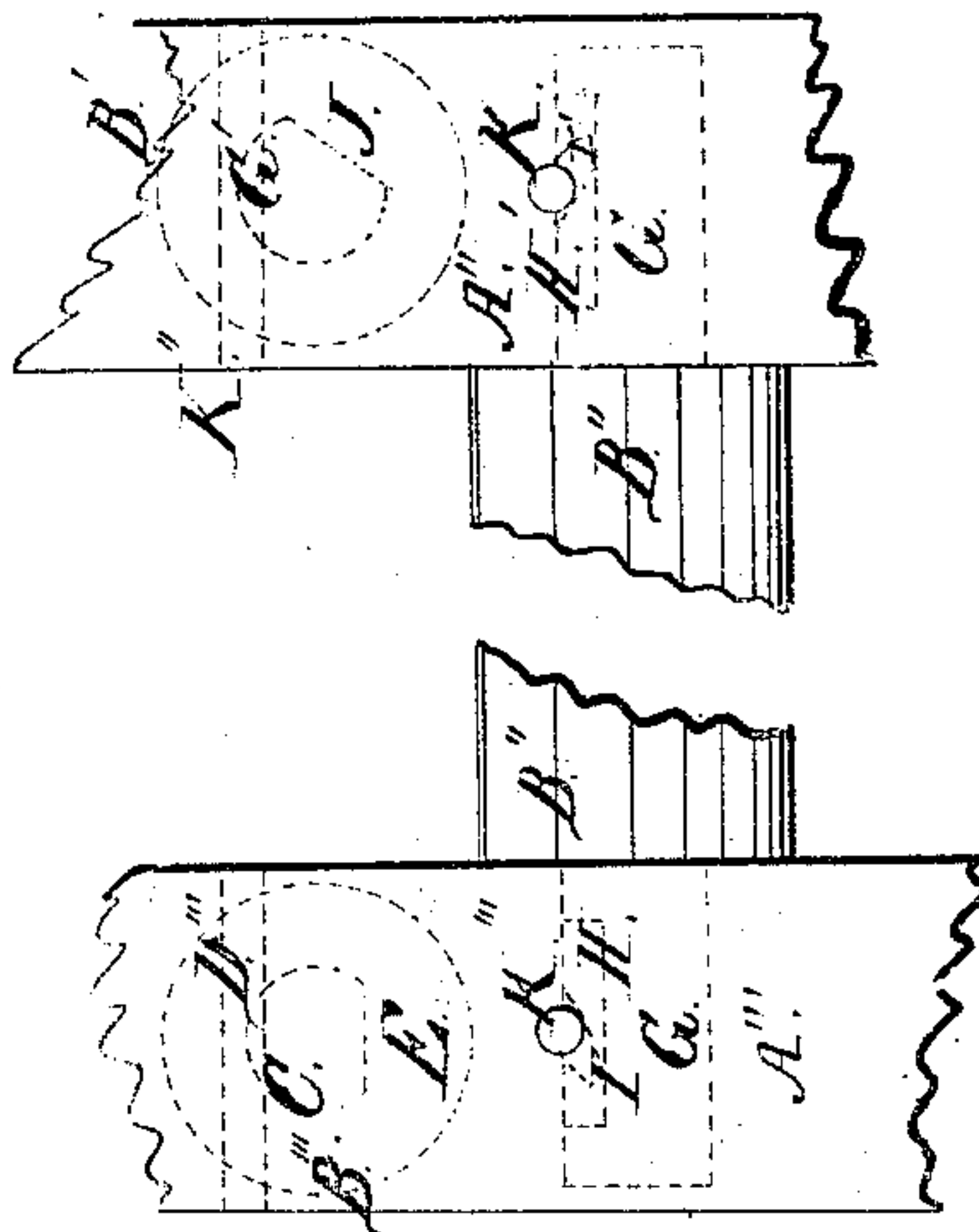


Fig. 5.



UNITED STATES PATENT OFFICE.

E. S. TAYLOR, OF CLEVELAND, OHIO.

BEDSTEAD-FASTENING.

Specification of Letters Patent No. 9,604, dated March 1, 1853.

To all whom it may concern:

Be it known that I, E. S. TAYLOR, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in the Mode of Constructing Bedstead-Fastenings; and I do hereby declare that the following is a full and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view of a bedstead with my improved fastenings; Figs. 2 and 3, detached views of the rails; Fig. 4, the end view of the bedstead marked X, and Fig. 5 the side view marked XX.

Like letters refer to like parts in the different views.

A A' A'' A''' are the bedstead posts, B B' B'' B''' the side and end rails. The side rail B, is like the end rail B''' in its manner of fastening to the posts A A' A'', as seen at C' C'', Fig. 3, in place at C' C'', Fig. 4. The rails are fastened to the posts by the pins D D' D'' D''', which pass through the posts at right angles over each other, as seen at Figs. 1 and 4, which are so situated in the post that they will fit into the grooves C' C'' of the tenons C C, in the same manner as seen at D' D''' in the posts A A'', Fig. 4, and D''', Fig. 5. The tenons are flattened a little on one side, as seen at E E, Figs. 3, 4, and 5. This is to allow the tenon to pass by the pins in the mortise as far as the grooves C' C''. Then by turning the rails the pins fit into the grooves, which securely holds the tenon in the mortise and causes the ends of the rails or shoulders of the tenons to fit closely against the sides of the bed posts A A' A'', Fig. 1. This mode of fastening is seen in place at D' D''', Fig. 4, and D''', Fig. 5, and allows the rails B and B''' to revolve while the pins are in the grooves. This is for the purpose of taking up the slack of the rope or tightening it by turning the rails in the direction of the arrows, Fig. 1, by means of which any degree of tension may be given to the bed cord, at any desirable time, thereby avoiding the trouble of recording the bedstead when the rope becomes slack. At the ends of the rails B and B''' are pawls and ratchets F F' for the purpose of retaining the tension of the cord as taken up by the turning of the rails. The ratchet is secured to the rails and the pawls to the posts.

The mode of fastening the rails B' and

B'', Figs. 1 and 5, to the posts A' A'' A''', is different from the fastening of the rails B and B''', but form a combination with them, constituting my improved bedstead fastening. The end and side rails B'' and B''' are alike in their manner of fastening to the posts.

A detached view of the rails is seen at Fig. 2.

To the tenons G G are secured the metallic plates H H' in which are the spiral sections of grooves I I', fitted to the pins K K', which pass through the posts at right angles over each other, as seen at K' and K'', in the same manner as the pins D D' in the post A, Fig. 1. The spiral grooves I I do not pass entirely around the tenon, like the grooves C' C'', but only far enough to allow the ends of the rails to fit tightly against the posts A' A'' A''', which is easily done by turning the rails in the direction of the arrow, Fig. 1, thereby securely fastening the posts and rails together by the action of the pins K K', and spiral grooves I I', forming a section of a right and left plane or screw on each of the tenons of the rails B', B''. The tenons are flattened on one side, in the manner seen at J J, Fig. 2, for the purpose of letting the tenon pass by the pins as far as the spiral grooves, as seen in Fig. 2, when the rail is turned to receive the pin in the groove, which locks the rails B' B'' and posts A' A'' A''' together in a position shown by the rail B'' and posts A' A'' A'''.

The position of the tenon of the rail B' in the post A'', is seen at G', Fig. 5, and K'', the pin for fastening it to the post.

It will be observed that the tenons of the side and end rails pass nearly through the post over each other at right angles, which length of tenon gives strength and permanency to the joints. By this means the tops of the side rails are on a line with the underside of the end rails, the cords being attached to the rails in the manner shown in Fig. 1, by which means the turning of the rail B''', in the direction of the arrow causes the rail B' to turn in the direction of the arrow marked on it, which according to the spiral grooves on the tenons firmly fastens the rail to the posts A' A''. The same effect will be produced on the rail B'', and posts A'' A''', by turning the rail B in the direction of the arrow marked on it. The tendency is at all times when the bed-

stead is in use to tighten the rails B' B'' to the posts, and having the tenons at right angles over each other allows them to be made of a length and size that will secure a permanent joint.

I do not claim separately the pawl and ratchet, nor a continuous right and left hand thread or screw, but

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

The combination of the pawl and ratchet, with the spiral grooved sections H I, and H' I', attached to the tenons G G, arranged and applied in the manner and for the purpose herein specified, namely, the tenons of one side rail and one end rail, being furnished with the plates having the spiral groove, turning to the right and left as described, turning in the direction of the arrows and making a tight joint with the post; the other side and end rails having in their tenons a groove, passing around the tenon at right angles to the axis, and fitting the

pins as described, so that by having one side of the tenon on each end, flattened to enable it to pass the pin, in order to allow it to enter the groove, when by turning in either direction less than a complete revolution, the pin fitting into the groove, prevents the posts and rails from separating, and by attaching the ratchets to one end of this side rail, and one end of the end rail, with the pawls attached to the posts as specified, by the tightening of the cord put on in the manner described, the whole frame of the bedstead is held firmly together, by the combined action of all the parts described, one end rail and one side rail, remaining stationary, the other end rail and side rail, turning as described for the purpose of tightening the cord, both being secured by the pawl and ratchet.

E. SUMNER TAYLOR.

Witnesses:

WM. STEPHENSON,
GEORGE W. TIBBITTS.