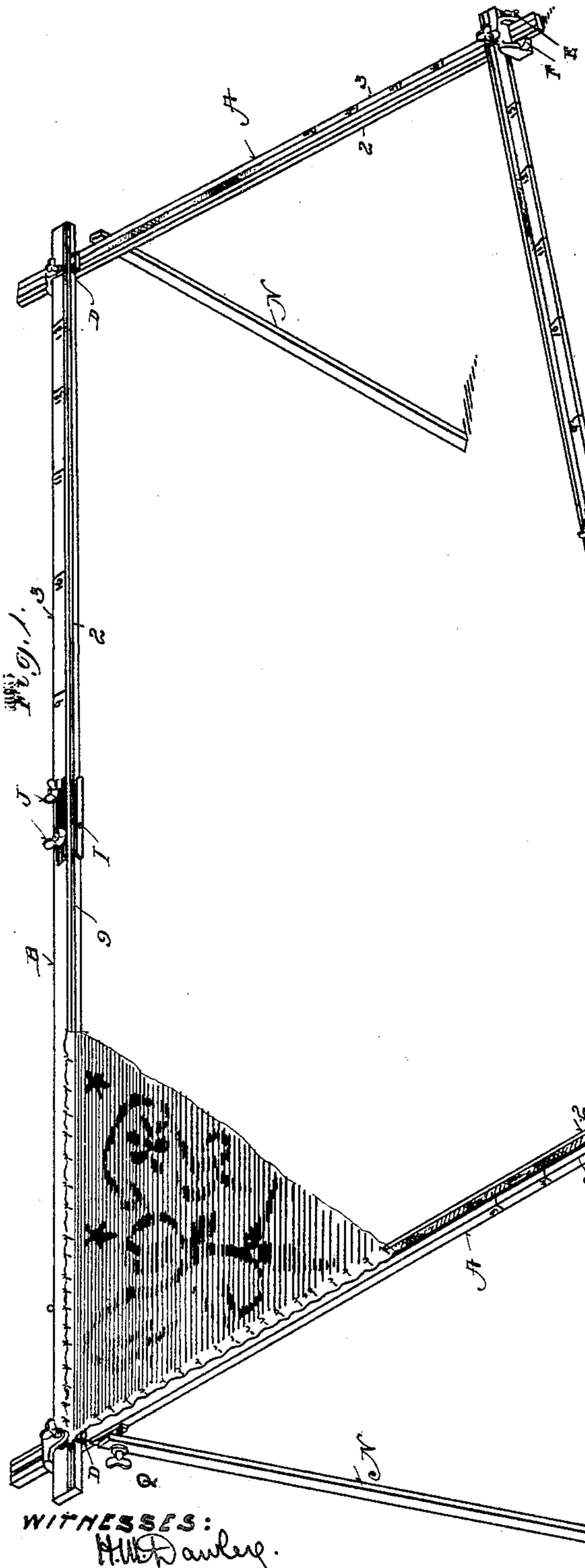
No. 667,845. Patented Feb. 12, 1901.

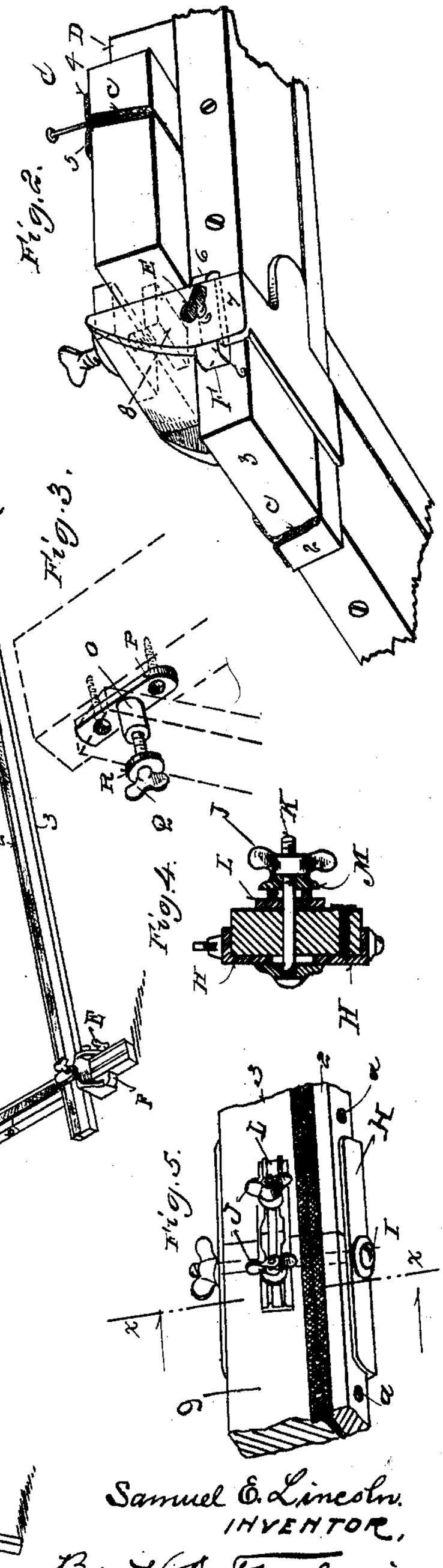
S. E. LINCOLN.

CURTAIN STRETCHER AND QUILTING FRAME.

(Application filed Feb. 18, 1899.)

(No Model.)





WITNESSES:
H. W. Dawley.
H. M. McNair.

Samuel E. Lincoln.
INVENTOR,
By H. A. Goodwin
ATTORNEY.

UNITED STATES PATENT OFFICE.

SAMUEL E. LINCOLN, OF SPRINGFIELD, OHIO, ASSIGNOR TO ANNA B. LINCOLN AND RUTH P. LINCOLN, OF NORWICH, NEW YORK.

CURTAIN-STRETCHER AND QUILTING-FRAME.

SPECIFICATION forming part of Letters Patent No. 667,845, dated February 12, 1901.

Application filed February 18, 1899. Serial No. 705,970. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. LINCOLN, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Curtain-Stretchers and Quilting-Frames, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in curtain-stretchers and quilting-frames.

The object of my invention is to so construct the stretcher that a curtain, &c., may be secured at as many points as desired by the use of pins, whereby it will be kept perfectly smooth and even.

My invention also relates to an improved clamping device for holding the rails composing the frame without injuring or indenting the wood out of which they are formed, but which will permit of readily adjusting the size of the frame structure to accommodate various sized quilts, and also for rolling the quilt as quilted.

My invention also relates to details of construction hereinafter appearing and particularly pointed out in the claims.

In the accompanying drawings, on which like reference characters indicate corresponding parts, Figure 1 is a perspective view of my improved curtain-stretcher and quilting-frame complete; Fig. 2, a detail perspective view showing a portion of the meeting ends of two of the rails of the frame structure with my improved holding-clamp applied thereto; Fig. 3, a detail view of a portion of one of the end rails, showing the manner of attaching an adjustable leg thereto; Fig. 4, a sectional view on the line $x\,x$ of Fig. 5, and Fig. 5 a detail view of the coupling-clamp for coupling the sections composing the side rails together.

The letter A represents the end rails of the frame proper of my improved curtain-stretcher and quilting-frame, while the letter B represents the side rails composing said frame. These rails are each constructed of two strips 2 and 3. Between these strips is pasted a fold of fabric C, the folded edge being flush with the lower side of the parallel strips, while the edges 4 and 5 are pasted down on top of their respective strips, it being understood that the folds of the fabric are not pasted together, but are simply pasted to each strip, whereby the pins may be readily inserted between them. In addition to holding these strips together by pasting the folded strip upon them I employ nails or screws a, as shown in Fig. 2. By this construction the parallel strips practically form one rigid rail with the fabric between them, which permits of thrusting pins therein throughout the entire length of the strips. Thus when the curtain is stretched upon the frame a pin is stuck through the curtain and between the fabric at intervals, as may be desired. For instance, where there are a large number of scallops a pin may be placed in each and in this way the curtain may be stretched smoothly and evenly on the frame.

In order to hold the side rails and end rails together, I have provided an improved clamp, which is adapted to slip upon one of the rails—being in this instance the end rail—until it comes in contact with the side rail, which rests against strips D on the upper face of each end rail, as clearly seen in Fig. 1. In this position the clamp is secured to the end rail by means of the thumb-screw E, which screws through the side of the clamp and presses upon the plate F. This plate is adapted to engage with the end rail and is of sufficient area to prevent such rail from becoming indented by the pressure of the thumb-screw thereon. Such plate is provided with guide extensions 6, between which fits the side 7 of the clamp. Thus as the thumb-screw E presses the plate F inward against the end rail the guides hold the plate in position. The end of the side rail is next placed firmly against the clamp, and the thumb-screw G is screwed down until its lower end 8 engages with said side rail, thus holding the rail firmly

in position. By reason of the clamp construction just described this side and end rail will be at exact right angles to each other, so that the curtain or other article placed upon the frames will not be stretched out of shape. A clamp of this construction is used for each of the corners of the frame, and consequently a further description of the remaining clamps will be unnecessary. By referring to Fig. 1 it will be seen that the side rails are constructed in two parts. This is for the purpose of permitting the parts to be separated, so that the frame may be more readily packed for shipping and handling. In order to prevent the sagging of these parts at their meeting ends, I provide an improved coupling device consisting of a pair of angle-irons H, formed one for each lower edge of the side rails, where the parts of the side rails are united. These angle-irons are secured to one of the parts of such side rail by means of a bolt I, which extends through them, as also the portion 9 of the side rail. It will be observed that these angle-irons project beyond said portion of the side rail far enough to permit the other portion of the side rail to rest therein. In order to hold them in position, I provide thumb-nuts J, which screw upon clamping-bolts K, the latter carrying washers which fit beneath said angle-irons. On the upper surface of the meeting edges of these portions of the side rail, I provide flanged plates L, upon which is adapted to fit washers M, so that when the thumb-nuts are turned down the washers M on the respective bolts K will engage with the flanged plates L to bind the parts of the side rail snugly together without in any wise marring such rail.

In order that the frame structure may be placed in position to more readily arrange the curtain thereon, I provide legs N, which are adapted to pivot upon the studs O, projecting from metallic bases P, the latter of which are screwed or in any other suitable manner secured to the end rails near one end. A wing-screw Q, having a projecting flange R, is adapted to screw into the stud O to hold the leg N in place thereon and also to hold it in any desired position, according to the required inclination of the frame structure.

When it is desired to use the frame for quilting, the legs are removed or are swung against the outer edges of the end rails, where they may be clamped in position. As the quilt becomes ready for rolling in order to shorten it as may be desired the clamps at one end of the frame structure are loosened and slipped out of engagement with the side rails, when the end rails are rolled in order to wind or roll up the quilt. Having wound the quilt sufficiently, the clamps are again placed in position and the operation of quilting is continued as before.

It will be understood that when the frame structure is used for quilting it is placed upon the backs of chairs or other suitable supports.

Referring again to the strip of fabric placed between the parallel strips forming the sides and ends, it will be understood that instead of one piece of cloth being used more than one may be employed. This strip forms a sort of a pincushion, as it were, for the reception of the pins used for holding the curtains or quilts in place, such pins also being held in position by the pressure of the cloth thereon due to the strips being secured together by nails or screws.

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

1. As a new article of manufacture, a combined curtain-stretcher and quilting-frame composed of side and end rails, the former in sections, a pair of angle-irons to fit about the respective lower corners of said sections with a space between them, a flanged top plate fitting on top of said sections, a pair of bolts passing through the respective sections and through said flanged top plate, means for engaging with said flanged top plate, and means for engaging with said angle-irons, said bolt passing through said engaging means for drawing the angle-irons and flanged top plate to said sections, and another bolt extending transversely through one of said sections and through the upturned edges of said angle-irons, whereby lateral relative movement between the sections is prevented, all substantially as shown and described.

2. In a combined curtain-stretcher and quilting-frame, the combination with side and end rails, said rails being composed of sections, and each of said rails composed of parallel strips with fabric between them, suitable clamps for clamping said rails together, said clamps having a hole or opening therein through which one of said rails may project, and having clamping means to clamp it to said rail, and other clamping means for clamping another of said rails to said first rail and against the clamp, a coupling for each side rail consisting of a pair of angle-irons engaging the lower edges of one of said sections and projecting to engage with the lower edges of another section, and having a bolt extending through each of said angle-irons and one of said sections to clamp the irons to them, a flanged plate for the upper face of said section, and bolts extending through their respective plates and sections, and carrying washers, one of which engages the under side of the angle-iron and the other of which engages with its respective flanged plate, whereby the sections are held from sagging, substantially as shown and described.

3. In a combined curtain-stretcher and quilting-frame, the combination with side rails, of a clamp having a hole or opening therein to receive the end of one of the rails

composing said frame, a notched plate between the clamp and one edge of said rail, a thumb-screw adapted to screw into the side of said clamp adjacent to said plate and press the plate against said rail, a projection extending from said clamp having a thumb-screw therein, a plate carried by the lower end of said thumb-screw for pressing upon the adjacent rail in said frame structure, substantially as shown and described.

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

SAMUEL E. LINCOLN.

Witnesses:

B. B. ESTERLINE,

W. M. MCNAIR.