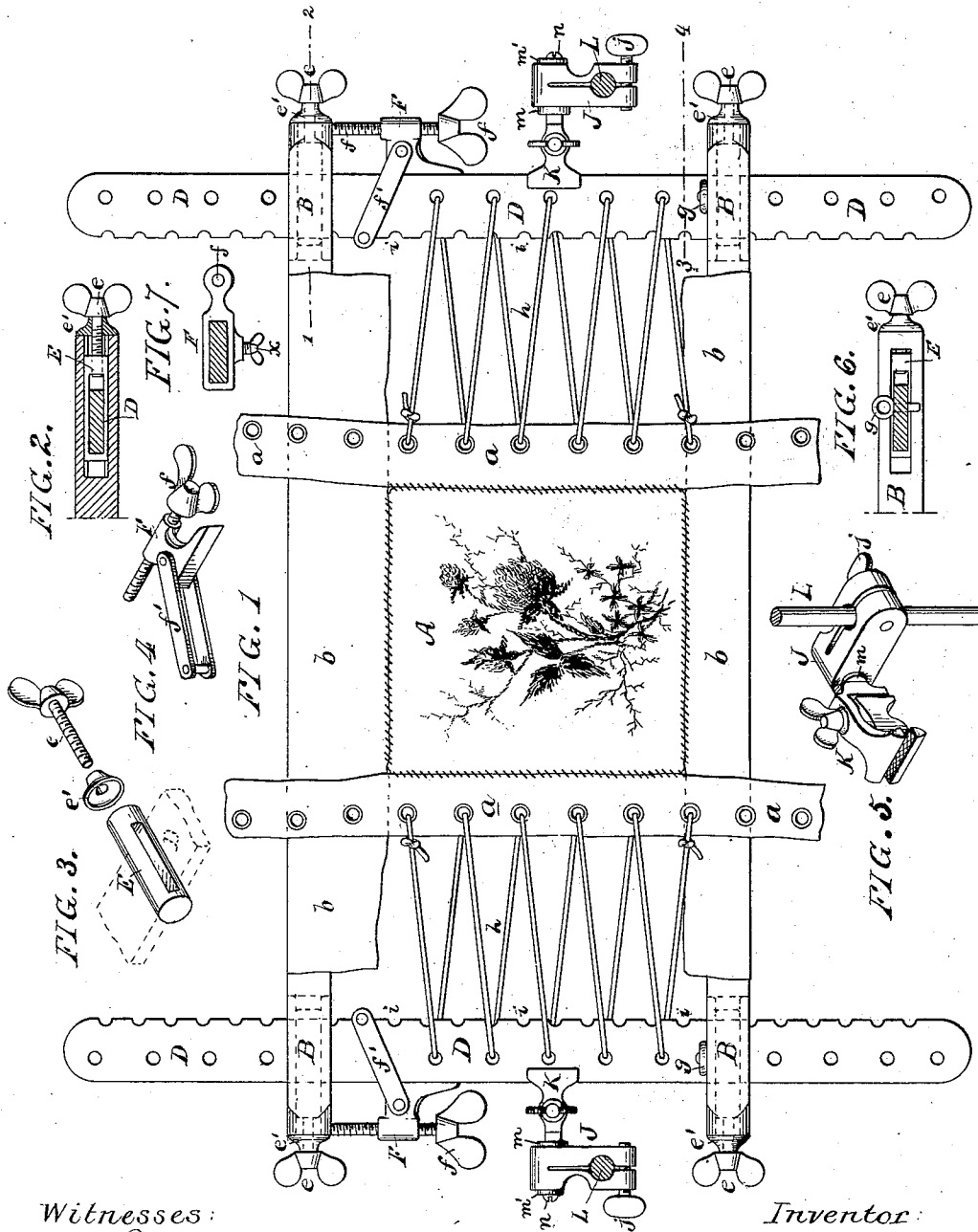


(No Model.)

M. BACON.
EMBROIDERY FRAME.

No. 349,473.

Patented Sept. 21, 1886.



Witnesses:
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UNITED STATES PATENT OFFICE.

MURRAY BACON, OF PHILADELPHIA, PENNSYLVANIA.

EMBROIDERY-FRAME.

SPECIFICATION forming part of Letters Patent No. 349,473, dated September 21, 1886.

Application filed March 12, 1886. Serial No. 194,969. (No model.)

To all whom it may concern:

Be it known that I, MURRAY BACON, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented a certain Improved Embroidery-Frame, of which the following is a specification.

The object of my invention is to construct an embroidery-frame adapted for the reception of different-sized pieces of embroidery-cloth and capable of imparting any desired degree of tension thereto, the frame, moreover, being adjustable to any desired height or angle, and the device being simple and cheap in construction.

In the accompanying drawings, Figure 1 is a plan view of my improved embroidery-frame. Fig. 2 is a transverse section, partly in elevation, on the line 1 2, Fig. 1; Figs. 3, 4, and 5, detached perspective views of parts of the device; Fig. 6, a section on the line 3 4, Fig. 1; Fig. 7, a view showing a modification.

The embroidery-cloth A is stitched on each side to strips *a a* of muslin or other suitable material, and at each end to strips *b b*, preferably of like material, which are fastened to end bars, B B. The strips *a a* are connected to side bars, D D, by means of lacing-cords *h*, passing through eyelets in said strips and through openings in the bars D. The end bars, B B, are mortised near each end for the reception of the bars D D, and bored for the reception of an adjusting device for said bars D, this adjusting device consisting of a yoke, E, which embraces the bar D and is free to slide longitudinally in the recess in the bar B, one end of the yoke forming a nut to which is adapted a thumb-screw, *e*, the head of which bears against a washer, *e'*, on the end of the bar B, (see Figs. 1, 2, and 3,) so that by manipulating the screws *e* the side bars, D, of the frame may be separated and the lateral stretching of the strip A of embroidery-cloth thereby effected.

One of the end bars, B, bears against pins *g*, adapted to openings in the bars D, said bars B being thereby prevented from sliding on the bars D when subjected to pull, due to the endwise stretching of the embroidery-cloth, this stretching being effected by the adjustment of the opposite end bar, each projecting end of which beyond the side bar, D, is acted upon

by a thumb-screw, *f*, adapted to a nut forming part of a block, F, which bears upon the outer face of said bar D, and is confined thereto by a double link, *f'*, the pin at the inner end of which is adapted to one of a series of notches, *i*, in the inner face of the side bar. (See Figs. 1 and 4.) It will thus be seen that when the inner pin of the link is adapted to the notch nearest the bar B and the screw *f* is manipulated the first effect of the movement will be to cause the block F to bear firmly on the bar D, continued turning of the screw causing the bar B to be moved so as to stretch the cloth A endwise.

I have not thought it necessary to illustrate in the drawings a stand or support for the embroidery-frame, as any stand having an upright post on each side of the frame will answer the purpose. I, however, use a special device for securing the frame to the upright posts of the stand, this device being shown in Figs. 1 and 5.

To each post L, which in the present instance is in the form of a rod, is adapted a split block, J, one end of which forms a bearing for the stem of an ordinary hand-vise, K, between the jaws of which is clamped one of the said bars D of the frame. The outer split end of the block J has a thumb-screw, *j*, on tightening which the block will be firmly clamped to the post L, and the embroidery-frame thus supported at any desired height on the post.

The stem of the vise K is fitted snugly to its bearing-block J, and the latter is confined between a shoulder, *m*, on the stem and a washer, *m'*, upon which bears a screw, *n*, so that the frictional contact will be sufficient to maintain the embroidery frame at any angle to which it may have been adjusted.

My invention, although described as an embroidery-frame, is applicable as well to quilting-frames, frames for artists' canvases, &c.

My invention is not limited to the exact means shown for adjusting and retaining the blocks J on the side bars, D, of the frame, as a block guided on the side bar is secured in position by a set-screw, *x*; or its equivalent may be used—as shown in Fig. 7, for instance—the link, however, being preferred.

I am aware that an embroidery-frame has

been hung by clamps to upright standards, the clamps engaging with the upper bar of the embroidery-frame; but in my case each vise is pivoted to the clamp and engages with the side bar of the frame, so that the latter can be adjusted to and fro in the jaws of the vise, in addition to the swinging movement permitted by the pivoting of the vise and the vertical movement due to the adjustment of the clamp on the standard.

I claim as my invention—

1. The combination, in an embroidery or like frame, of a side bar, D, an end bar, B, recessed for the reception of the bar D, a yoke engaging said bar D, and an adjusting-screw engaging with the yoke and having a bearing on the bar B, all substantially as specified.

2. The combination of the frame comprising side and end bars with blocks carried by the side bars and having threaded openings for the reception of set-screws which act upon one of the end bars, whereby said end bar is adjusted in a direction lengthwise of the side bars, so as to stretch the cloth, all substantially as specified.

3. The combination of the side bar of the frame, the end bar free to slide thereon, a set-screw for acting on said end bar, and a block

carrying said screw and adjustable on the side bar, all substantially as specified.

4. The combination of the end bar and the notched side bar with the block F, carrying the adjusting-screw for the end bar, and a link, *f'*, connected to said block and having a pin adapted to engage the notches of the side bar, all substantially as specified.

5. The combination of the embroidery-frame, the supporting-post L, the split block J, clamped to said post L, and the vise K, constructed to clamp the side bar of the frame and having a stem hung to said block J so as to be free to turn therein, all substantially as specified.

6. The combination of the frame, the post L, the split block clamped thereto, and the clamping-vise K, having a stem adapted to a bearing in the block, said vise being held in position on the block by friction, all substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MURRAY BACON.

Witnesses:

WILLIAM F. DAVIS,
HARRY SMITH.