(No Model.)

C. HERRMENAU.

EMBROIDERY FRAME.

No. 389,811. Patented Sept. 18, 1888.

Fig. 1

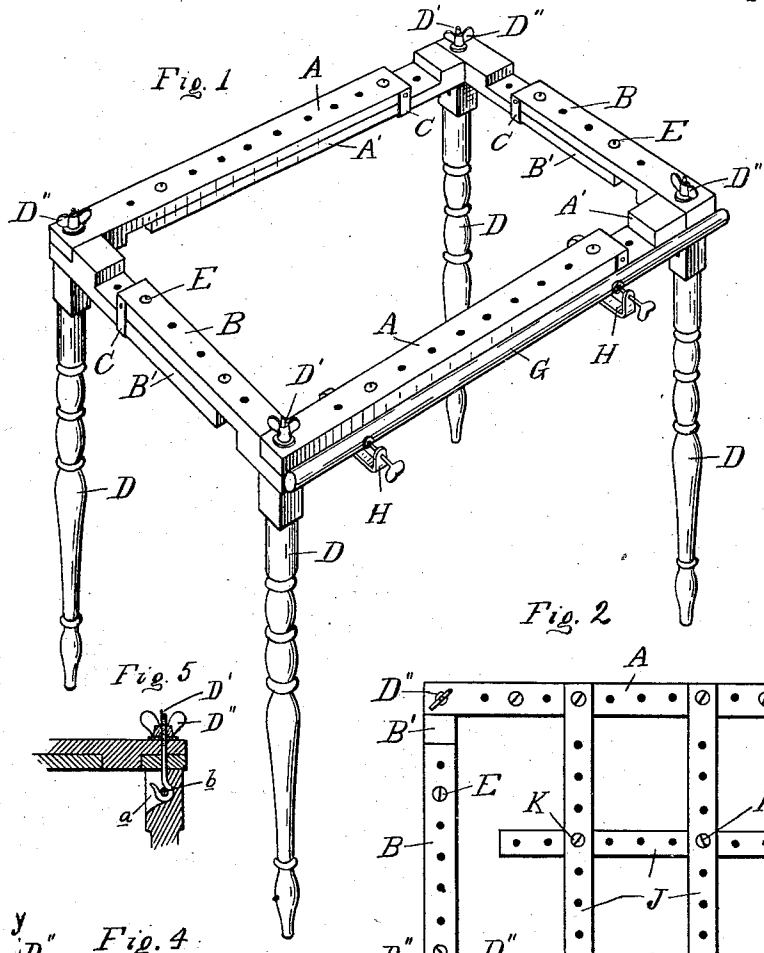


Fig. 2

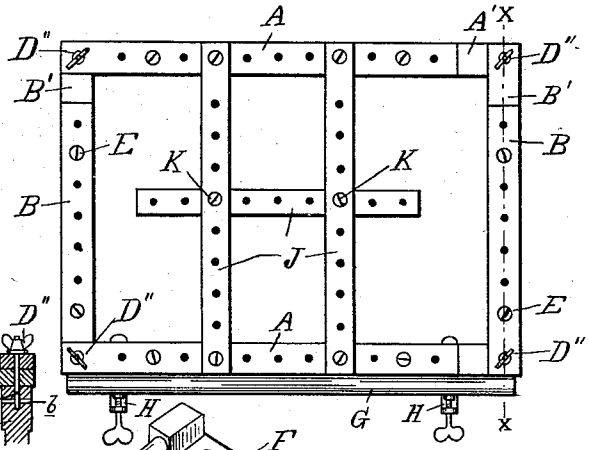


Fig. 5

Fig. 4

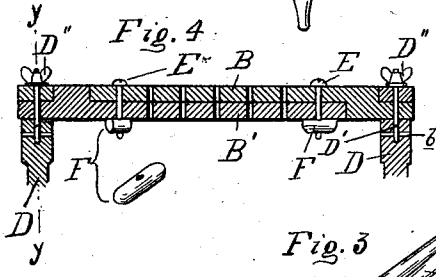
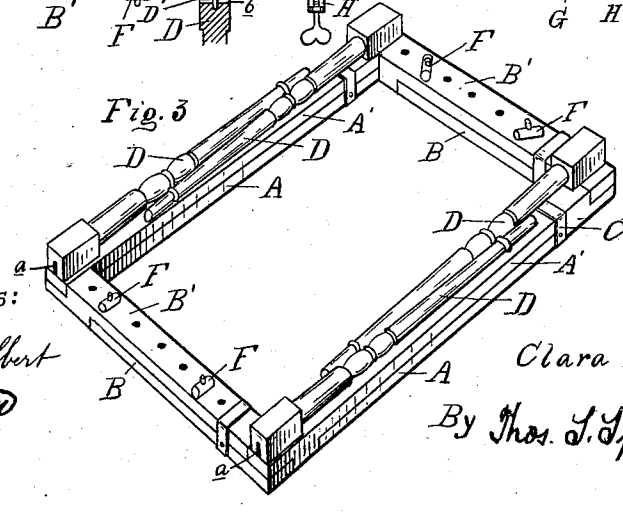


Fig. 3



Witnesses:

P. M. Hulbert

Inventor:

Clara Herrmenau

By Thos. S. Sprague & Son.

Atty.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CLARA HERRMENAU, OF DETROIT, MICHIGAN.

EMBROIDERY-FRAME.

SPECIFICATION forming part of Letters Patent No. 389,811, dated September 18, 1888.

Application filed December 12, 1887. Serial No. 257,635. (No model.)

To all whom it may concern:

Be it known that I, CLARA HERRMENAU, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Embroidery-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 embroidery-frames; and the invention consists in the peculiar arrangement and construction of the parts, whereby the frame is made adjustable in order that it may be employed for large or small work, and can readily be folded into a small compass, all as more fully hereinafter set forth.

Figure 1 is a perspective view of my improved frame as set up ready to receive the material to be worked. Fig. 2 is a plan view showing arrangement of bars for reducing the size of the frame to accommodate it for small work. Fig. 3 is a perspective view showing the frame folded up. Fig. 4 is a cross-section on the line *x x*, Fig. 2. Fig. 5 is a cross-section on the line *y y*, Fig. 4.

In the accompanying drawings, which form a part of this specification, A and B represent, respectively, the side and end bars of one portion of the frame, and A′ and B′ the corresponding bars of the other portion of the frame. At the corners of these respective frames the bars A and B and A′ and B′ are rigidly secured together, the bars A and B being arranged to slide upon the tops of the bars A′ and B′, the bars A and B being provided with guide-bands C, to retain the bars in their relative planes and in which the bars A′ and B′ are free to slide.

At the corners of the frame so formed legs D are connected thereto, so that they may be folded up against the under side of the frame, as shown, and this connection is constructed as follows: In one face of the legs D is formed a slot, *a*, which is intersected by a bolt or pin, *b*, driven through the leg transversely to the slot. With these pins *b*, I engage the hooks D′, the shanks of which extend upwardly through their respective corners of the frame, and are screw-threaded to receive the winged nut D″. When the frame is set up, as in Fig. 1, the wing-nuts are turned down, so as to draw by means of the hooks the heads of the legs firmly in contact with the corners of the frame. To put the frame into a knock-down condition the wing-nuts are loosened, which allows the legs to drop sufficiently to be folded up against the frame, where they may be secured by again turning up the wing-nuts.

The bars A A′ and B B′ are provided with a series of holes, any two of which may be brought coincident in the adjustment of the frame, and through which screw-bolts E pass, receiving upon their lower ends the nuts F. These nuts I prefer to make substantially of the form shown, as they are then less liable to catch the thread of the operator while embroidering.

In embroidering banners and other large work, I adjust the frame to the proper size for convenient working, sewing the material to one side and both ends of the frame, as in the ordinary manner, while the bulk of the materal I roll upon the rod G, which I then secure to the opposite side of the frame by means of suitable clamps, H. As the work progresses I release the ends of the material and unroll more from the roller, and adjust the frame to the proper size to receive the enlarged piece of material to work upon, and again secure it as before, and so on until the work is completed.

To reduce the frame to a size to receive smaller work, I employ supplemental bars J, which I secure together upon the frame by bolts K.

It will readily be seen that a frame constructed as herein described can easily be adjusted to any desired size within the length of the adjusting-bars, and that can be folded into a small compass for the purpose of storing or transportation.

What I claim as my invention is—

1. The combination, with the frame adjustable laterally, as described, of the clamps H, secured to one side of said frame, and the rotatable rod G, detachably held by said clamps

at one side of the frame parallel with the side bar thereof, substantially as and for the purpose specified.

2. The combination, with the frame composed of the bars A B A′ B′, adjustably connected together, as described, of the longitudinal and transverse supplemental bars J, secured together and upon said frame by bolts K, substantially as and for the purpose specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 9th day of November, 1887.

CLARA HERRMENAU.

Witnesses:
H. S. SPRAGUE,
P. M. HULBERT.