

(No Model.)

J. C. STATES.

COMBINED EMBROIDERY FRAME AND STAND.

No. 347,743.

Patented Aug. 17, 1886.

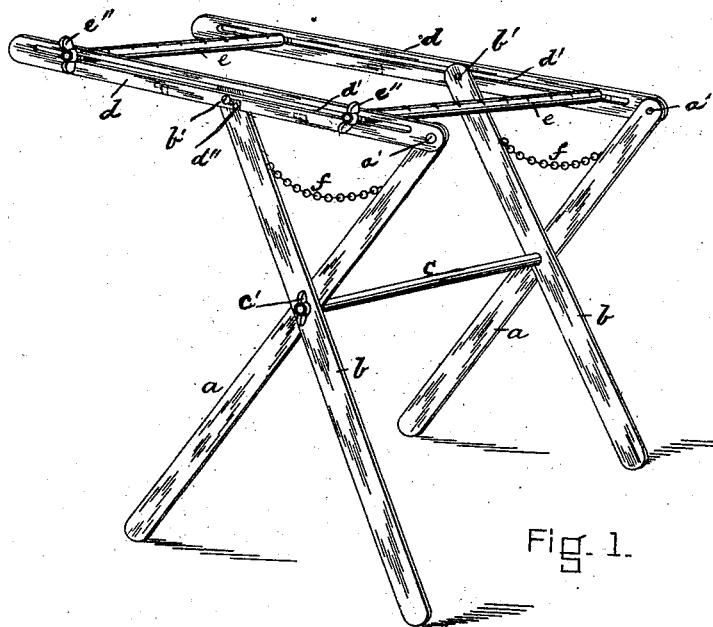
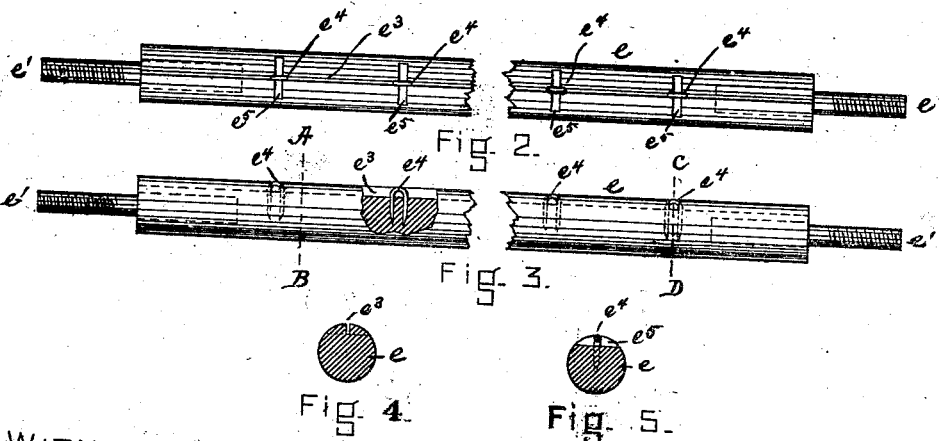


Fig. 1.



WITNESSES.

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COMBINED EMBROIDERY FRAME AND STAND.

SPECIFICATION forming part of Letters Patent No. 347,743, dated August 17, 1886.

Application filed May 1, 1886. Serial No. 300,778. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. STATES, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Combined Embroidery Frames and Stands; and I do hereby declare that the same are fully described in the following specification, and illustrated in the accompanying drawings.

The object of this invention is to provide a novel embroidering-frame and stand therefor, the parts whereof can be folded together, when desired. This object I accomplish in the manner and by the means hereinafter described and claimed, reference being made to the accompanying drawings, illustrating my invention, in which—

Figure 1 represents a perspective view of the combined frame and stand when put in position ready for use. Fig. 2 represents a top view of one of the rollers, and Fig. 3 represents a side view of the same, shown partly in section. Fig. 4 represents a cross-section on the line A B, (shown in Fig. 3,) and Fig. 5 represents a cross-section on the line C D, also shown in Fig. 3.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The stand is composed of the legs *a b a b*, which are held in pairs at a proper distance apart by means of the brace *c*, having screw-threaded ends passing through the legs *a b a b*, and when the stand is in use the brace *c* is secured to the legs by means of a thumb-nut, *e'*, in each end of said rod or brace *c*.

The upper ends of the legs *a a* are hinged at *a' a'*, respectively, to the frame side pieces, *d d*, as shown in Fig. 1, such side pieces being provided with longitudinal slots *d' d'*, that serve to receive the screw-bolts of the rollers or end pieces, *e e*, as shown. To the upper ends of the legs *b b* are secured the screws *b' b'*, adapted to enter and rest in bayonet slots or recesses *d'' d''* on the under side of the side pieces, *d d*, as shown in Fig. 1. Each roller *e* has secured to its ends the screw-threaded bolts *e' e'*, which, when the frame is to be used, are inserted through the slots *d' d'* in the side pieces, *d d*, and secured to the latter in any desired position, according to the size of the

material to be worked, by means of the thumb-nuts *e'' e''*. (Shown in Fig. 1.)

f is a chain or cord attached to the respective pair of legs *a b a b*, to prevent them from spreading too far apart while the frame is being put in position relative to said legs.

For the purpose of securing the cloth or other material to be worked to the rollers *e e*, I make on each of said rollers a longitudinal slit or groove, *e'*, extending from end to end of such roller, and at proper distances apart through such groove *e'* are driven into the roller *e* the staples *e' e'*, which serve as fastening devices through which the thread or cord is passed for securing the ends of the fabric to said rollers *e e*. To facilitate the passage of the needle or thread through the staples *e' e'*, I make on the rollers *e e* lateral grooves *e'' e''*, at the places where the respective staples *e' e'* are located, as fully shown in Figs. 2, 3, 4, and 5.

In using the stand and frame the legs *a b a b* are first secured together and to the brace *c* in a manner as described, and the screws *b' b'* inserted in the bayonet slots or recesses *d'' d''*, as shown in Fig. 1. The ends *e' e'* of the rollers *e e* are then passed through the slots *d' d'* in the side pieces, *d d*, and placed at a proper distance apart, according to the size of the fabric to be worked, and the rollers *e e* secured to the sides *d d* by means of the thumb-nuts *e'' e''*—one in each end of each roller. The fabric is then secured to the rollers by means of threads or cords passed through its edges and through the staples *e' e'*, as hereinbefore described, after which the fabric is stretched by winding it more or less upon one or both of the rollers, which is done by turning the rollers around, the thumb-nuts *e'' e''* being loosened a little during such operation, and afterward properly tightened so as to hold the rollers in their proper positions relative to each other and to the side pieces, *d d*. As the work proceeds, the fabric is to be wound off one roller and wound on the opposite one. If it should be found necessary to stretch the fabric sidewise, this may easily be done by passing a thread or cord through its side edges and around or through its slotted sides *d d*. The legs *a b a b* are preferably made of such corresponding lengths as to give a proper inclination to the frame; but, if it should be de-

sired to change the inclination of the frame, additional bayonet-slots d'' may be made on the under side of the side pieces, d , as shown in dotted lines in Fig. 1.

5 This my improved combined stand and embroidery-frame is very simple in construction. It can easily be adjusted to fabrics of various sizes, and when not required for use it can be packed away in a very small compass.

10 Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

1. An embroidering-frame and support therefor, consisting of pairs of pivoted legs a b , the 15 longitudinally-slotted side pieces, d , hinged at one end to the legs a , with the upper ends of the legs b adjustable along the length of the side pieces, and the two rollers c , provided with devices for securing the fabric and having their ends arranged in and adjustable along 20 the slots in the side pieces, substantially as described.

2. An embroidery-frame and support therefor, consisting of pairs of pivoted legs a b , the 25 longitudinally-slotted side pieces, d , hinged at one end to the legs a , with the upper ends of the legs b adjustable along the length of the side pieces, the two rollers c , provided with means for securing the fabric and having at 30 their ends the threaded bolts e' , extending through the slots of the side pieces, and thumb-nuts e'' , for clamping the rollers in their adjusted position, substantially as described.

3. The combination of an embroidering-frame, consisting of the side pieces, d , and 35 rollers c , adjustable along said side pieces and having devices for securing the fabric to be

embroidered, with a support for the frame consisting of two pairs of pivoted legs, one of each pair hinged to and the others adjustable along 40 the side pieces, substantially as described.

4. The combination, in an embroidering-frame, of side pieces, d , and rollers c , each roller having a longitudinal slit, e' , transverse slots 45 e'' , and staples e' , the two limbs of which enter the roller at the intersection of the transverse slots with the longitudinal slit, substantially as described.

5. An embroidering-frame combining in its structure a supporting-stand, two longitudi- 50 nally-slotted side pieces, and two rollers having their ends arranged in and adjustable along the slots of the side pieces, each of said rollers having a longitudinal slit, e' , transverse slots e'' , and staples e' , the two limbs of which 55 enter the rollers at the intersection of the transverse slots with the longitudinal slit, substantially as described.

6. The embroidering-frame composed of the longitudinally-slotted side pieces having 60 their under edges provided with the recesses b'' , and the rollers c , having their ends, held in and adjustable along the slots of the side pieces, in combination with folding legs a b , 65 the former hinged to one end of the side pieces and the latter engaging any of the recesses b'' , substantially as and for the purpose described.

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

JOHN C. STATES.

Witnesses:

ALBAN ADNRÉN,
HENRY CHADBOURN.