

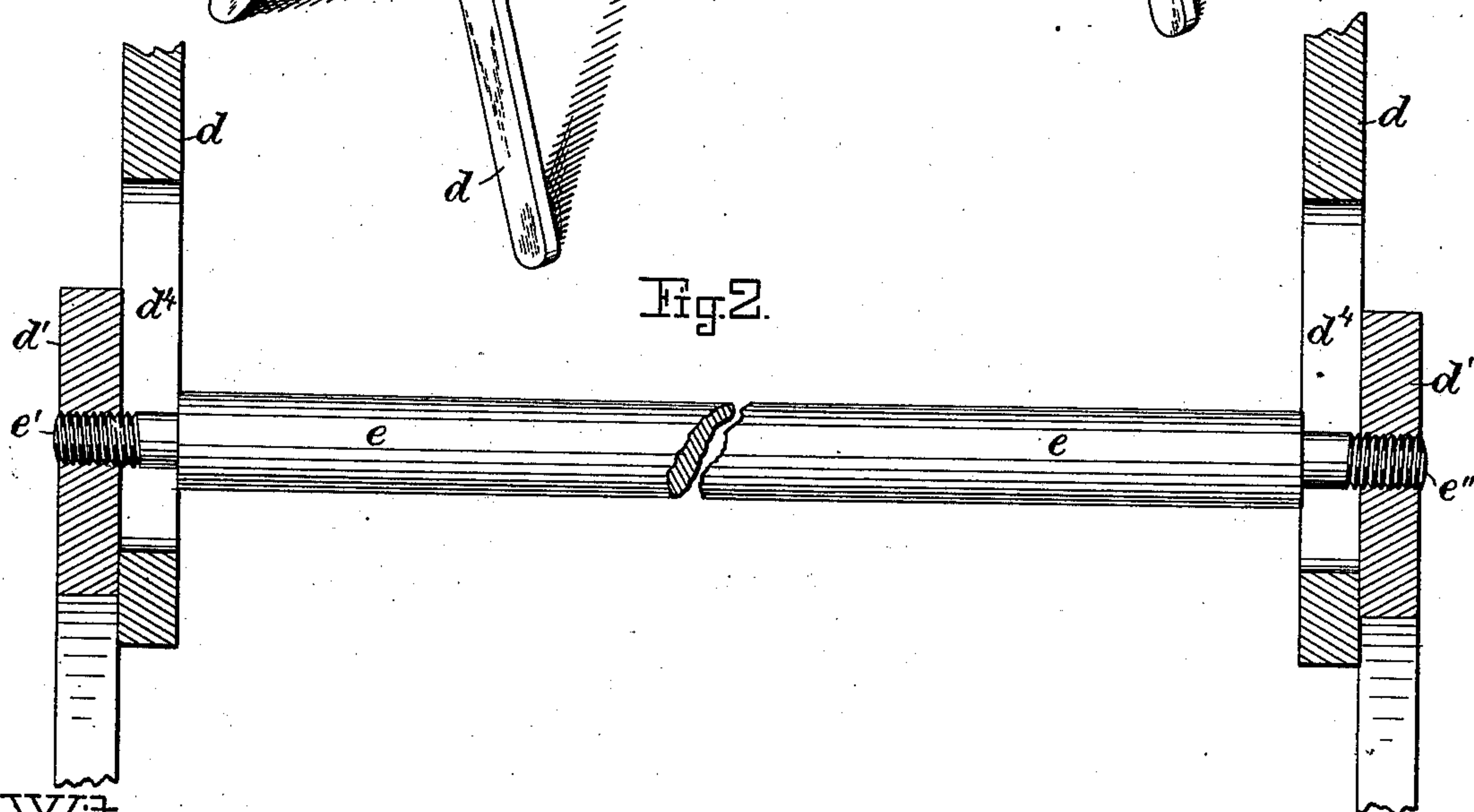
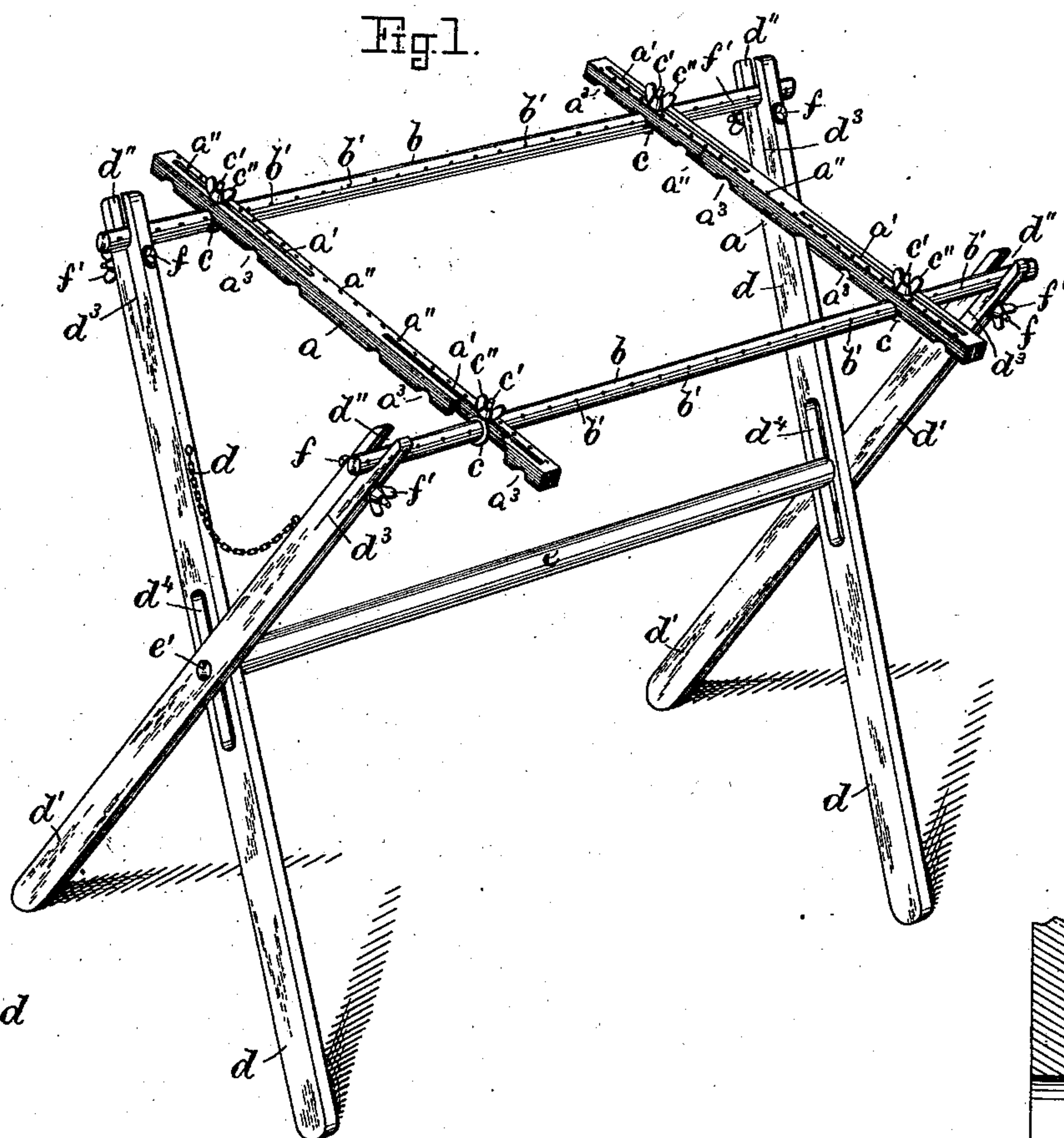
(No Model.)

E. B. SQUIRE.

ADJUSTABLE EMBROIDERY FRAME AND STAND.

No. 351,667.

Patented Oct. 26, 1886.



Witnesses
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EDMUND B. SQUIRE, OF SHARON, MASSACHUSETTS.

ADJUSTABLE EMBROIDERY FRAME AND STAND.

SPECIFICATION forming part of Letters Patent No. 351,667, dated October 26, 1886.

Application filed May 14, 1886. Serial No. 202,193. (No model.)

To all whom it may concern:

Be it known that I, EDMUND B. SQUIRE, a citizen of the United States, residing at Sharon, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Adjustable 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.

This invention relates to improvements in adjustable embroidery frames and stands adapted for use in making embroidery, fancy needlework, and for similar purposes, and it is carried out as follows, reference being had to the accompanying drawings, where—

Figure 1 represents a perspective view of the improved frame and stand as shown in position for use, and Fig. 2 represents a detail view of the horizontal brace for the stand and its connection to the latter.

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

It is desirable that embroidery-frames should be made in such a manner that its sides and ends may be adjusted to and from each other according to the size of the material that is to be embroidered; and it is also requisite that it should be as light as possible consistent with proper strength; and it is also desirable that the frame should be constructed in such a manner that its sides and ends may be detached from each other when no longer required for use, so as to permit it to be packed away, stored, or transported in as small and compact package as possible.

The stand for holding the frame, to be practical, should be made so as to securely hold the frame in a horizontal or inclined position, and constructed so that it may be taken apart when no longer required for use and its component parts laid parallel to each other, so as to occupy but a small space while stored or transported, and for these purposes I construct my improved frame and stand as follows: The frame is composed of the two side pieces, *a a*, such side pieces being provided with slotted perforations *a' a'* for receiving the fastening-bolts, by means of which the end pieces are secured in an adjustable manner to said side pieces, *a a*.

a'' a'' are a number of small perforations made through the sides *a a*, through which a cord or thread is passed for securing the material that is being embroidered to the said side pieces. On the under side of the side pieces, *a a*, I make a number of semicircular or otherwise-shaped notches or recesses, *a³ a³*, as shown in Fig. 1, adapted to receive and serve as bearings for the end pieces when secured to the sides *a a*.

b b represent the end pieces made in the form of cylindrical rods or dowels, and provided with a series of small perforations, *b' b'*, through which a cord or thread is passed for securing the ends of the material to said rods *b b*.

c c are eyebolts through which the rods *b b* are inserted, such eyebolts having upwardly-projecting screw-threaded ends *c' c'*, passing up through the slotted perforations *a' a'* in the side pieces, *a a*, as shown in Fig. 1, and provided with thumb-nuts *c'' c''*, which when tightened secure the rods *b b* to the side pieces, *a a*, in any of the desired notches or recesses *a³ a³*, according to the size of the material that is being worked. Thus it will be seen that the rods *b b* may be brought nearer together or farther apart on the side pieces, *a a*, by locating them in corresponding notches, *a³ a³*, according to the length of the cloth or pattern to be worked, and the side pieces, *a a*, may be brought nearer together or farther apart by sliding them by means of the eyebolts *c c* on the rods *b b*, according to the width of the material that is to be embroidered, and after the side pieces, *a a*, and end pieces or rods, *b b*, have been thus properly adjusted according to the size of the material to be worked, such parts are to be firmly secured together by means of the eyebolts *c c* and their thumb-nuts *c'' c''*. During the progress of the work the thumb-nuts *c'' c''* are loosened sufficiently to enable the rods *b b* to be turned in the eyebolts *c c*, when one of the rods *b* can be turned to enable a portion of the finished cloth to be wound upon it and a corresponding portion of the unfinished cloth unwound from the opposite roller, after which the cloth is kept stretched by tightening the thumb-nuts *c'' c''*.

This my improved adjustable frame may be used by being held in the lap of the worker, or in any other suitable or practical manner,

without the need of a stand; but when a stand is desired I construct it as follows:

My improved stand is composed of four legs, $d d' d'$, and a horizontal brace, e , for holding them together, as shown in Figs. 1 and 2. Each of the legs $d d' d'$ is forked in its upper end at d'' , as shown in Fig. 1, and provided with a saw-slit, d^3 , to permit such forked ends to be drawn together, and thus clamp the ends of the rods $b b$ to the upper ends of said legs $d d' d'$, which is done by means of the bolts $f f$ passing through the upper forked ends of said legs, such bolts being screw-threaded and provided with thumb-nuts $f' f'$, as shown in Fig. 1.

The brace e is provided with screw-threaded ends $e' e''$, one of which is right-handed and the other left-handed, as shown in Fig. 2, such screw-threaded ends passing through slotted perforations $d^1 d^1$ in the legs $d d$ and screwed through correspondingly screw-threaded perforations in the outer legs, $d' d'$, as shown in the drawings.

The slotted perforations $d^1 d^1$ in the legs $d d$ serve for the purpose of enabling the legs to be adjusted relative to each other, so that the frame may be held horizontal or inclined more or less, to suit the requirements of the operator. By turning the brace e in one direction its hold of the legs $d d' d'$ is loosened sufficiently to permit them to be adjusted as above described, and after being so adjusted the legs may be firmly secured in position by turning the brace e in an opposite direction.

The brace e may be entirely detached from the legs $d d' d'$ when it is desired to pack away the stand or transport it from one place to another.

Heretofore a quilting-frame has comprised two pairs of pivoted legs carrying at their upper ends two rollers adapted to be rotated in bearings on said legs, the fabric to be quilted being unwound from one roll and wound upon the other roll as the work progresses, and the legs being spread apart at their upper ends and held by jointed braces to stretch the fabric. In another instance a quilting-frame has comprised end bars supported by legs and provided at each end with a slot, and rollers having gudgeons journaled in eyebolts that project upward through said slots and are provided

with nuts, whereby the rollers can rotate and also be adjusted by the eyebolts to and from each other; and in another instance an embroidery-frame has comprised standards carrying vertically-adjustable blocks, a rotating rod journaled in said blocks, arms split at each end and at one end embracing the said rod, and a rotating rod journaled in the other split ends of the arms, said arms being adjustable to and from each other on the rotating rods, so that the rods can be rotated to unwind and wind the fabric as the work progresses, and the arms are adjustable to the width of the fabric. Such several constructions, therefore, I disclaim.

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

1. The combination, in an embroidering-frame, of the pairs of pivoted legs adjustably connected together, the end rods, $b b$, capable of rotating in bearings in the upper ends of the legs, the longitudinally-slotted cross-pieces $a a$, extending from one rod to the other, and having a series of notches, a^3 , in their under sides for engaging said rods, and the eyebolts e , adapted to slide along the rods, and in the eyes of which the rods rotate, said eyebolts extending through the slots in the cross-pieces and provided with thumb-nuts e'' , substantially as described.

2. The combination, in an embroidering-frame, of the end rods, $b b$, the longitudinally-slotted cross-pieces $a a$, extending from one rod to the other, and having a series of notches, a^3 , in their under sides for engaging said rods and adjusting them to and from each other, the eyebolts e , adapted to slide along the length of the rods, and in the eyes of which the rods rotate, said eyebolts extending through the slot in the cross-pieces, and thumb-nuts e'' on the eyebolts, for clamping the notched pieces in engagement with the rods, substantially as described.

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

EDMUND B. SQUIRE.

Witnesses:

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