



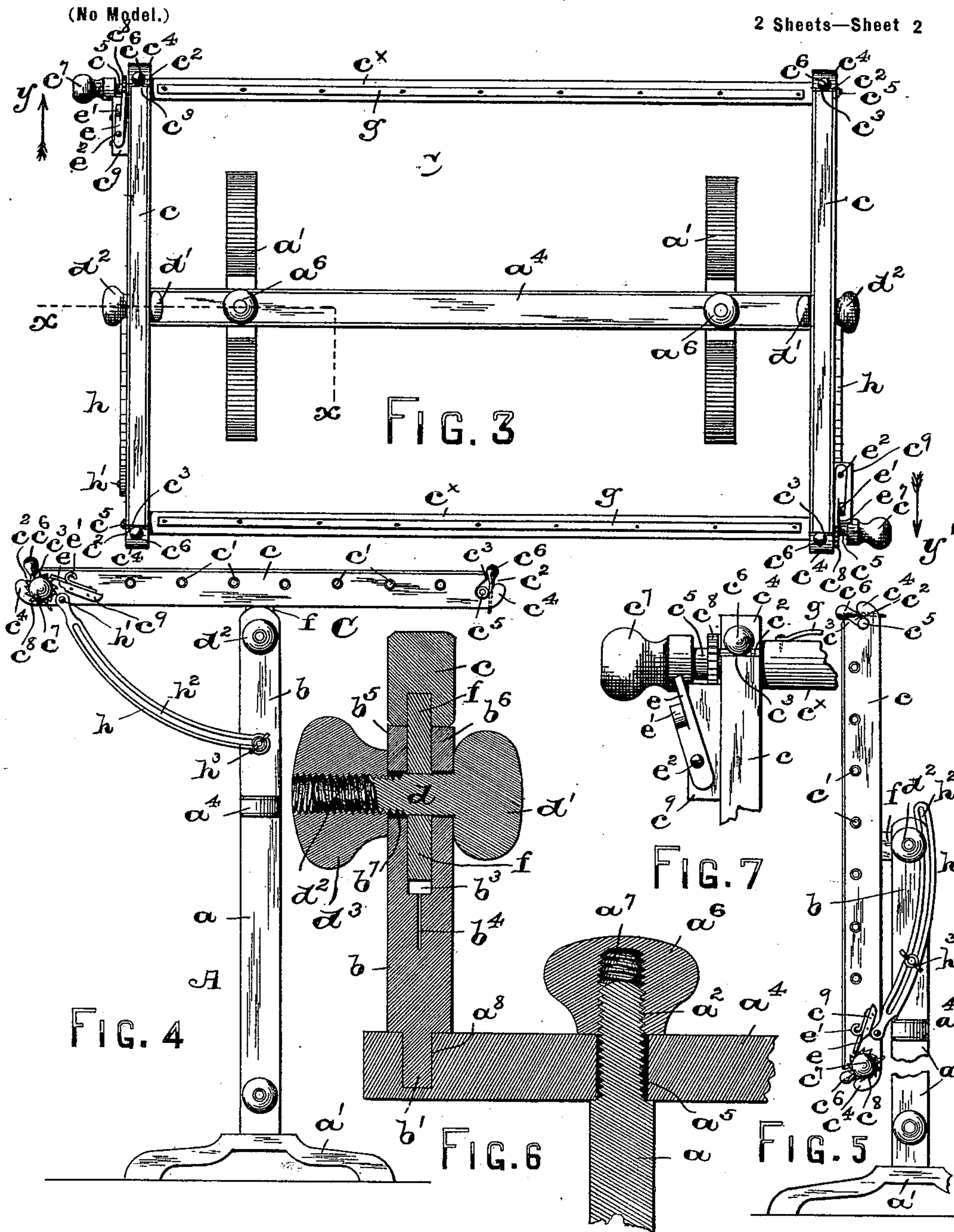
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Patented Jan. 16, 1900.

J. B. OELKERS.  
EMBROIDERY FRAME.

(Application filed Mar. 23, 1899.)

2 Sheets—Sheet 2



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## EMBROIDERY-FRAME.

SPECIFICATION forming part of Letters Patent No. 641,604, dated January 16, 1900.

Application filed March 23, 1899. Serial No. 710,189. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. OELKERS, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Embroidering-Frames; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

15 This invention relates to improvements in embroidery-frames; and my invention has for its primary object to provide a novel construction of embroidery-frame comprising a standard or support having the frame proper  
20 hinged and swinging on pivots on said standard, combined with a set of rollers to which the material to be embroidered is attached, said rollers being detachably arranged in relation to the embroidery-frame and said rollers being  
25 tightened by means of a suitable ratchet mechanism.

A further object of this invention is to provide a combined standard and an adjustable embroidering-frame connected therewith  
30 whereby said frame can be arranged at any angle to the standard or support to suit the operator, and, furthermore, whereby the frame can be vertically arranged when not in use to enable the placing of the entire device at one side against a wall, where it will  
35 be out of the way and take up but very little space.

A further object of this invention is to provide a combined standard and embroidering-frame connected therewith by means of separable joints and bearings to enable the quick separation of the several parts for more readily packing and arranging the same in a small package for shipment or for storing the same  
45 away.

My invention therefore consists in the novel construction of embroidery-frame hereinafter fully set forth, and also in such novel arrangements and combinations of the parts  
50 and the details of the construction thereof, all of which will be fully described in the ac-

companying specification and finally embodied in the clauses of the claim.

The invention is fully illustrated in the accompanying drawings, in which—

Figure 1 is a front view of the standard and embroidery-frame, the latter being represented in its adjusted position ready for working upon the material or goods stretched between the rollers connected with the frame. 55  
Fig. 2 is a similar view of the upper portion of the standard, representing the embroidery-frame tilted in its vertical position. Fig. 3 is a plan or top view of the several parts illustrated in said Fig. 1, and Fig. 4 is a side view 60 of the said parts. Fig. 5 is a similar view of the standard and embroidery-frame, the latter being represented in its vertical position. Fig. 6 is a vertical section taken on line *x* in Fig. 3, on an enlarged scale; and Fig. 7 is a 65 plan view of a portion of the embroidery-frame, one of the rollers connected therewith, and the ratchet mechanism on said frame and roller.

Similar letters of reference are employed 75 in all of the said above-described views to indicate corresponding parts.

In said drawings, A indicates the body-frame of the base or standard, which consists, essentially, of a pair of uprights *a*, having at the bottom thereof suitably-constructed legs or supports *a'*. Each upright *a* is formed at the top with a screw portion *a<sup>2</sup>*, which extends through holes *a<sup>5</sup>* in a cross-piece *a<sup>4</sup>* and projects above said piece, as 80 illustrated, to receive an ornamental nut or knob *a<sup>6</sup>*, having a screw-threaded chamber *a<sup>7</sup>*, whereby the said standards or uprights *a* and said cross-piece *a<sup>4</sup>* can be suitably secured together, as clearly illustrated in Figs. 1, 2, and 90 6. Said cross-piece *a<sup>4</sup>* has at or near each end thereof a hole *a<sup>8</sup>*, in each of which is secured the stem *b'* of an upright or post *b*, substantially as shown in Fig. 6. The upper portion of each post *b* is slotted, as at *b<sup>3</sup>*, being also provided with the downwardly-extending saw cut 95 *b<sup>4</sup>* to give a certain spring-like action to the parts *b<sup>5</sup>* and *b<sup>6</sup>* of each post. The said parts *b<sup>5</sup>* and *b<sup>6</sup>* of said posts *b* are each provided with holes *b<sup>7</sup>* for the reception of a journal-pin *d*, 100 having an ornamental head *d'* and a screw portion *d<sup>2</sup>*, on which I have screwed an ornamen-



tal nut  $d^3$ . Pivotally arranged in the said slots  $b^3$  and upon the said pins  $d$  are the perforated tongues  $f$ , which are secured to the under sides of the side bars or pieces  $c$  of the embroidery-frame C. Each side piece or bar  $c$  of said frame is preferably provided with a series of holes or perforations  $c'$  and has at the ends thereof bearing portions  $c^2$ , formed by a slightly forwardly extending projection  $c^3$  and the lug  $c^4$ , as will be clearly evident from an inspection of Figs. 3 and 4. In these bearing portions  $c^2$  I have rotatably arranged the journals or reduced ends  $c^5$  of a pair of rollers  $c^x$ , on each of which may be longitudinally arranged and secured thereon a piece of tape  $g$ , as clearly indicated in Figs. 3 and 7. To prevent any accidental displacement of said journals  $c^5$  from said bearing portions  $c^2$ , each lug  $c^4$  has a suitable hole, into which can be forced a wedge-like pin or key  $c^6$ , as illustrated in the several figures of the drawings, whereby said rollers are rotatively and operatively arranged between the said side bars or pieces  $c$  of the embroidery-frame C. By slightly unscrewing the nuts  $d^3$  on the pins  $d$  it will be evident that the said frame C can be tilted and secured in its adjusted position at any desired angle to the standard or base A.

As will be seen from the several figures of the drawings, each roller is provided on one end with an ornamental knob or handpiece  $c^7$  and a ratchet-wheel  $c^8$ . In operative engagement with the ratchets or teeth of each wheel  $c^8$  is a spring dog or pawl  $e$ , which is provided with a suitable finger-piece  $e'$ , each pawl or dog being pivotally arranged on a pin  $e^2$  and capable of a lateral movement on a block  $c^9$  on the sides of each side bar or piece  $c$  of the embroidery-frame C. Thus it will be seen from an inspection more especially of Figs. 3 and 7 that when the work to be embroidered upon is attached to the pieces of tape  $g$  on the rollers  $c^x$  by operating the knobs  $c^7$  in the directions indicated by the arrows  $y$  and  $y'$  in said Fig. 3 the said piece of work can be pulled taut by the rotation of said rollers in opposite directions, and where the piece of work or material to be embroidered is very long it can be rolled upon one of said rollers and unrolled from the other roller as the work progresses by the simple manipulation of the spring-dogs  $e$  and the knobs or finger-pieces connected with said rollers in the well-known and ordinary manner.

As an extra precaution to prevent the tilting of the embroidery-frame should the operator bear too heavily thereon sector-plates  $h$  may be pivoted on screws or pins  $h'$  in the sides of the bars  $c$ , said plates being slotted, as at  $h^2$ , and fitted over a pin in each post or upright  $b$  and provided with a thumb-nut or other nut  $h^3$  for holding the said sector-plates securely in their adjusted positions.

The holes or perforations  $c'$  in the side bars  $c$  hereinabove mentioned may be used for the passing of a thread or cord therethrough,

which can be stitched through the lateral edges of the material or piece to be embroidered to prevent sagging of the same.

From the above description it will be seen that I have devised a simply constructed and operative device for the purposes set forth all the parts of which, except the ratchet-wheels and spring-dogs, are made of wood, which may be polished and suitably ornamented when desired. It will also be evident that the several parts of the device are easily separated when it is desired to pack the parts in a small package for shipment or for storing the device away, and when the frame is tilted directly against the standard, as indicated in Figs. 2 and 7, then the device can be placed directly against or near the wall of a room to take up but little space and be out of the way.

Of course it will be understood that changes may be made in the several arrangements and combinations of the various parts, as well as in the details of the construction thereof, without departing from the scope of my present invention. Hence I do not limit my invention to the exact arrangements and combinations of the parts as herein described and illustrated in the accompanying drawings, nor do I limit myself to the exact construction of the said parts.

Having thus described my invention, what I claim is—

1. The herein-described embroidery-frame, consisting, essentially, of a base or standard having an upright or uprights  $a$ , a screw portion  $a^2$  on each upright, a cross-piece  $a^4$  arranged over said screw portion and a knob or nut  $a^6$  thereon, a pair of posts  $b$  on said cross-piece, each post being slotted, as at  $b^3$ , having a saw cut  $b^4$ , and provided with perforated bearing portions, journal-pins  $d$  in said bearing portions, having an ornamental head  $d'$ , a screw portion  $d^2$  and an ornamental nut  $d^3$ , and an embroidery-frame pivotally connected with said pins  $d$ , so as to swing in the center, a pair of side bars connected with said embroidery-frame, having bearing portions, a pair of rollers removably arranged in said bearing portions, and means connected with said side bars and rollers to prevent the turning of said rollers, substantially as and for the purposes set forth.

2. The herein-described embroidery-frame, consisting, essentially, of a base or standard having an upright or uprights  $a$ , a screw portion  $a^2$  on each upright, a cross-piece  $a^4$  arranged over said screw portion and a knob or nut  $a^6$  thereon, a pair of posts  $b$  on said cross-piece, each post being slotted, as at  $b^3$ , having a saw cut  $b^4$ , and provided with perforated bearing portions, journal-pins  $d$  in said bearing portions, having an ornamental head  $d'$ , a screw portion  $d^2$  and an ornamental nut  $d^3$ , and an embroidery-frame pivotally connected with said pins  $d$ , so as to swing in the center, substantially as and for the purposes set forth.



3. The herein-described embroidery-frame, consisting, essentially, of a base or standard having an upright or uprights  $a$ , a screw portion  $a^2$  on each upright, a cross-piece  $a^4$  arranged over said screw portion and a knob or nut  $a^6$  thereon, a pair of posts  $b$  on said cross-piece, each post being slotted, as at  $b^3$ , having a saw cut  $b^4$ , and provided with perforated bearing portions, journal-pins  $d$  in said bearing portions, having an ornamental head  $d'$ , a screw portion  $d^2$  and an ornamental nut  $d^3$ , and an embroidery-frame pivotally connected with said pins  $d$ , so as to swing in the center, comprising, a pair of side bars  $c$ , having bearing portions at their ends, a pair of rollers removably arranged in said bearing portions,

means connected therewith for preventing accidental displacement of said rollers from said bearings, and a locking or holding means connected with each roller to prevent the turning of said rollers in one direction, consisting, of a ratchet-wheel on each roller, and spring dogs or pawls on the frame in operative engagement with said ratchets, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 20th day of March, 1899.

JOHN B. OELKERS.

Witnesses:

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