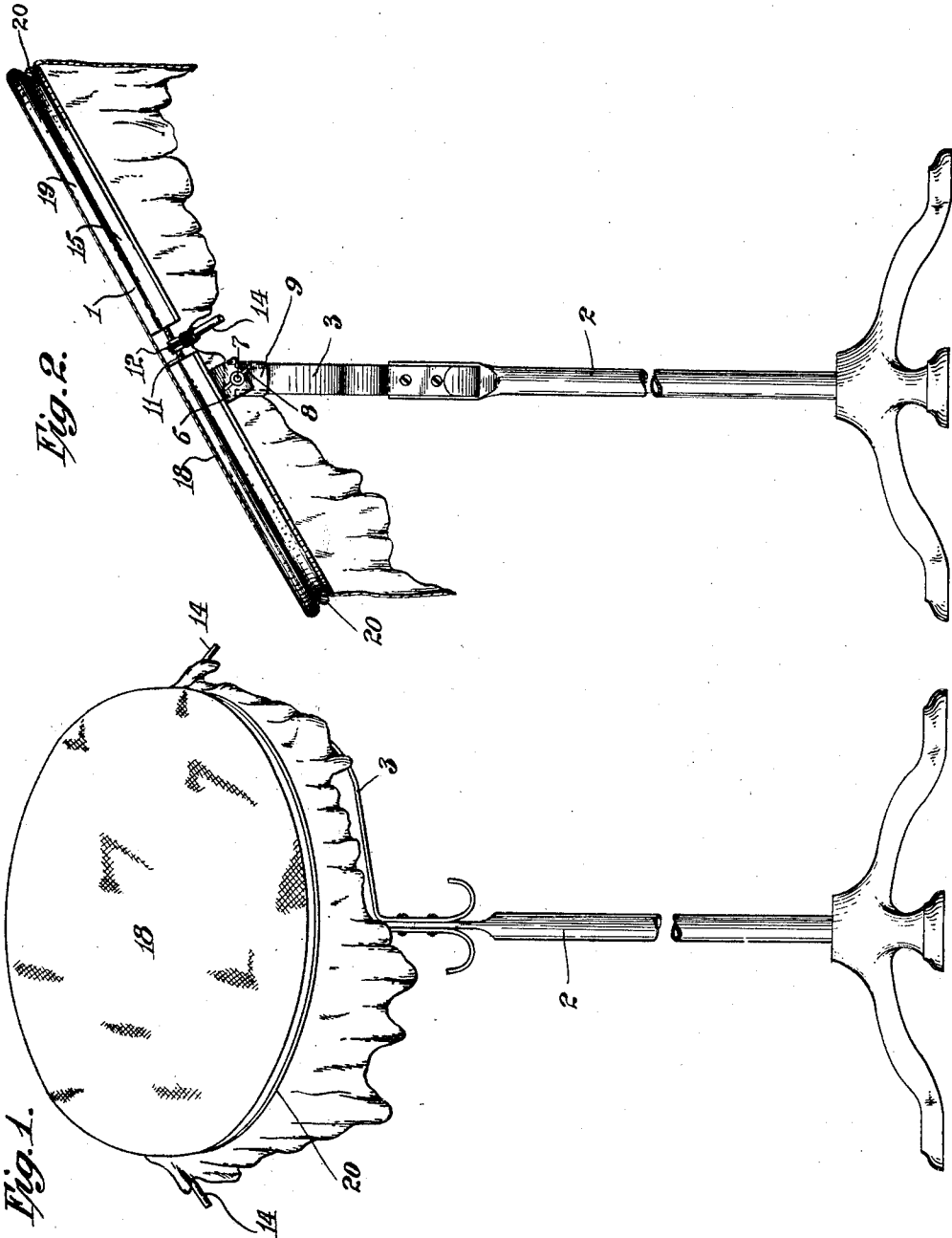


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APPLICATION FILED NOV. 18, 1919.

1,357,737.

Patented Nov. 2, 1920.
2 SHEETS—SHEET 1.



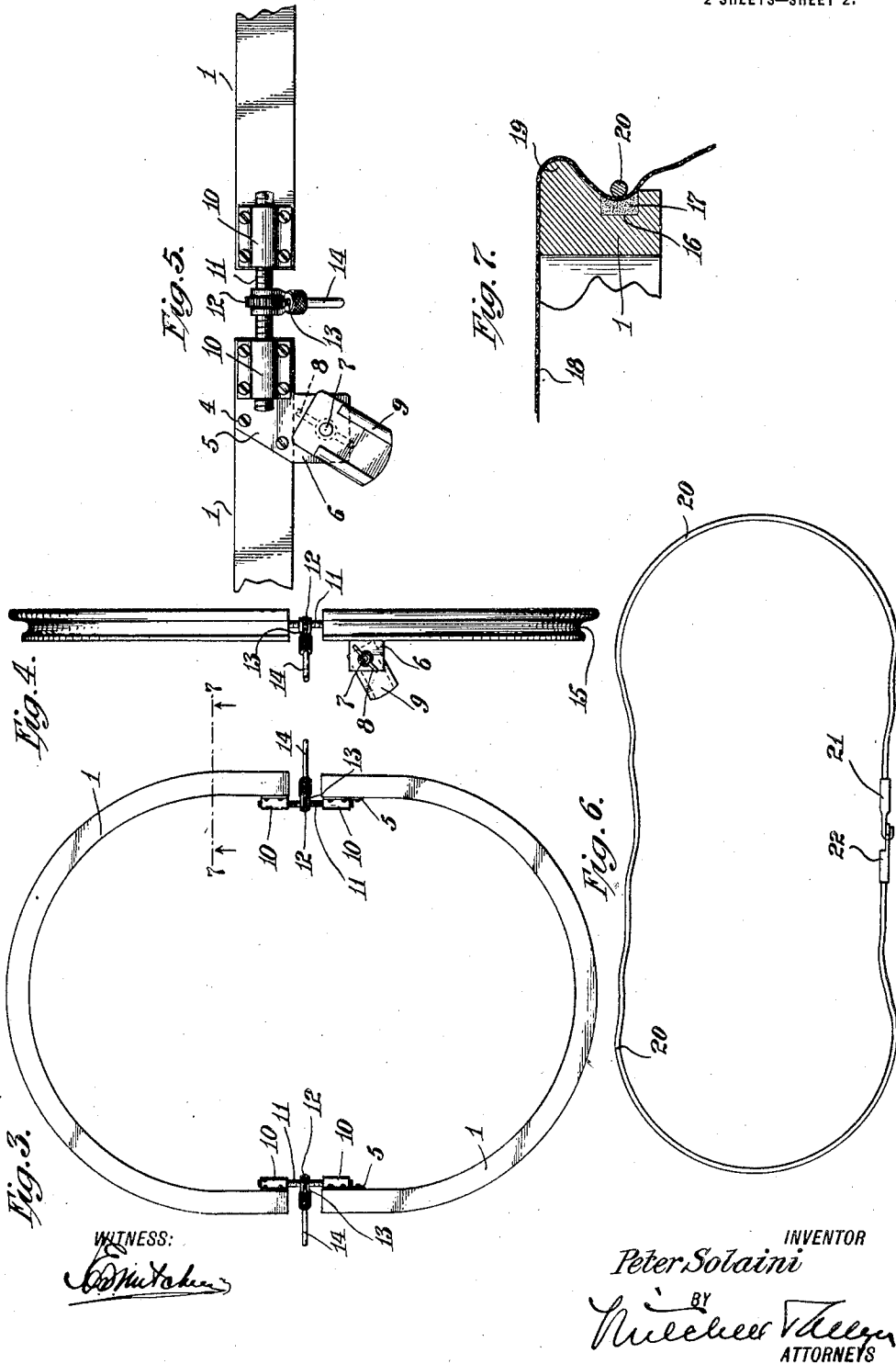
WITNESS:
E. J. Mitchell

INVENTOR
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WITNESS:
Ed. Mitchell

INVENTOR
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UNITED STATES PATENT OFFICE.

PETER SOLAINI, OF NEW YORK, N. Y.

EMBROIDERY-FRAME.

1,357,737.

Specification of Letters Patent.

Patented Nov. 2, 1920.

Application filed November 18, 1919. Serial No. 338,798.

To all whom it may concern:

Be it known that I, PETER SOLAINI, subject of the King of Italy, (first papers,) residing at New York, N. Y., have invented a new and useful Embroidery-Frame, of which the following is a specification.

My invention relates to the class of devices for stretching a fabric, and more particularly to an embroidery frame.

10 An object of my invention is to provide a frame on which fabric is placed, and which may then be enlarged to stretch the fabric. Other objects of my invention are to provide a frame having improved means for
15 enlarging the frame; to so construct the frame and associated parts that the fabric may be first secured to the frame and then stretched; to provide means for supporting the frame on a pedestal, and for varying the
20 angle of the frame relatively to the pedestal, and in general to improve the construction of devices of this class, so that a minimum amount of time will be required to stretch a fabric.

25 Briefly stated, in the accomplishment of the objects of my invention in its preferred form, I employ a frame, preferably of substantially oval shape, divided at one or more points, and having a right and left hand
30 screw for engaging the ends of the frame adjacent to division points, for separating or bringing nearer together the ends of the frame. A band is provided for encircling the frame and holding the fabric in place,
35 while the ends of the frame are being moved in the stretching operation. I preferably support my frame upon a pedestal, and provide means for adjustably securing the frame at any desired angle to the pedestal.
40 In the drawings, Figure 1, is a front view in elevation of one form of my frame supported on a pedestal and having the fabric in place.

Fig. 2 is a side elevation of the same.

45 Fig. 3 is a top plan view of the frame.

Fig. 4 is a side elevation of the frame.

Fig. 5 is an enlarged fragmentary view showing the means for adjusting the frame to various angles, and also the means for
50 moving the ends of the frame relatively to each other.

Fig. 6 is a view of the band to encircle the frame and hold the fabric in place.

55 Fig. 7 is an enlarged detail view taken in the plane of the line 7—7 in Fig. 3 looking

in the direction of the arrows, and showing the fabric and securing band in place.

In the preferred form of my invention shown in the drawings, the frame 1 may be made of any suitable material, such as
60 wood, preferably supported on a standard or pedestal 2, by means of supporting arms such as 3. Frame 1 is divided at two points near the center. Secured to the frame 1,
65 near the center, as by means of screws 4, is a bracket 5 having a projecting lug 6. Passing through an aperture in the lug 6, is a screw 7 having a wing nut 8 on one end thereof. Coöperating with the screw 7, and
70 projecting lug 6, is a socket 9 for engagement with the arms 3, for supporting the frame on the pedestal 2. This construction permits the screw 7 to be loosened by means of the wing nut 8, and thus permits the
75 angle between the frame and the pedestal to be varied. Secured upon adjacent ends of the frame, as by means of screws, are screw sockets or nuts 10. A right and left hand screw 11 coöperates with each pair of
80 screw sockets or nuts 10. To rotate the screw, I have shown a ratchet 12 and pawl 13 coöperating together, and capable of being operated by means of the handle 14. This pawl and ratchet is reversible, so as to
85 permit rotation of the screw in either direction as will be understood. Any other means such as a knurled nut might be substituted for the pawl and ratchet mechanism shown. The frame is preferably provided
90 with a groove 15 around the periphery. In the groove may be a recess 16 in which is seated a gripping band or member of yielding material such as rubber or felt 17. The frame in effect thus constitutes a yielding
95 member. The fabric as shown in Fig. 7 is thus gripped between the band 17 and the outside encircling band. The frame as shown particularly in Figs. 4 and 7, is provided on one edge with a relatively large projecting
100 lip 19, in order to provide a large bearing surface for the fabric 18. A band 20 which may be a common rope, cord, resilient or yielding band, or wire, may be provided with a hook and eye 21 and 22, and this band
105 is adapted to be placed around the frame and in the groove to hold the fabric securely in place on the frame.

In operation, the fabric is placed over the frame 1, and the band 20 is placed about the outside of the fabric, thus drawing the fab- 110

ric into the groove 15, and securing the fabric in place. When the fabric has been thus secured, the pawl and ratchet mechanism is operated to rotate the right and left hand screw 11, and the ends of the frame are thus spread apart from each other. The first effect of this spreading will be for the fabric to be tightly held between the yielding band 17 and the encircling band 20, and on further separation of the ends of the frame, the fabric will be tightly stretched. Since the frame is of substantially oval shape, and there is a comparatively rigid band encircling the frame, the frame upon the separation of the adjacent ends will tend to become circular, and thus stretch the fabric across the minor axis of the frame as well as along the major axis. If it is found desirable to work on the upper end of the frame, as viewed in Fig. 2, it would not be necessary for a person to reach to the upper end, or to bend over from the upper end. The only thing necessary with my device would be to loosen the screws 7, by means of the wing nuts 8, and adjust the frame to a different angle which would be more convenient to get at.

I have described one embodiment of my invention, but I wish it to be understood that the invention may be embodied in other forms than that shown, and I do not wish to be limited any more than is required by the appended claims.

I claim:

1. In a device of the class described, a substantially oval shaped frame divided at two points and each part being secured to the other by means of a right and left handed screw cooperating with correspondingly threaded sockets on the frame, a pawl and ratchet mechanism for operating said

screw, an adjustable socket on the frame for engagement with a stand, and a band engaged with the outside periphery of the frame to secure a fabric to the frame.

2. In a device of the character described, a frame member divided at one point, means engaging the frame adjacent the division point for increasing the distance between the ends of the frame adjacent the division point, an encircling band member about said frame for securing a fabric between said frame and said band member, one of said members being resilient whereby upon increasing the distance between the ends of the frame a fabric will be secured to the frame and upon further increasing said distance the fabric will be stretched.

3. In a device of the class described, a frame divided at one point, a relatively resilient band encircling the frame to secure a fabric in place, and screw threaded means for increasing the distance between the ends of the frame adjacent the division point whereby, upon increasing the distance between the ends of the frame, a fabric will be secured to the frame, and upon further increasing said distance the fabric will be stretched.

4. In a device of the character described, a frame divided at one point, a right and left handed screw cooperating with the ends of said frame adjacent the division point, means carried by the frame for cooperation with a supporting stand to support the frame in various positions, pawl and ratchet mechanism cooperating with said right and left handed screw for rotating the latter to move the ends of the frame relatively to each other and a band encircling said frame to secure a fabric in place thereon.

PETER SOLAINI.