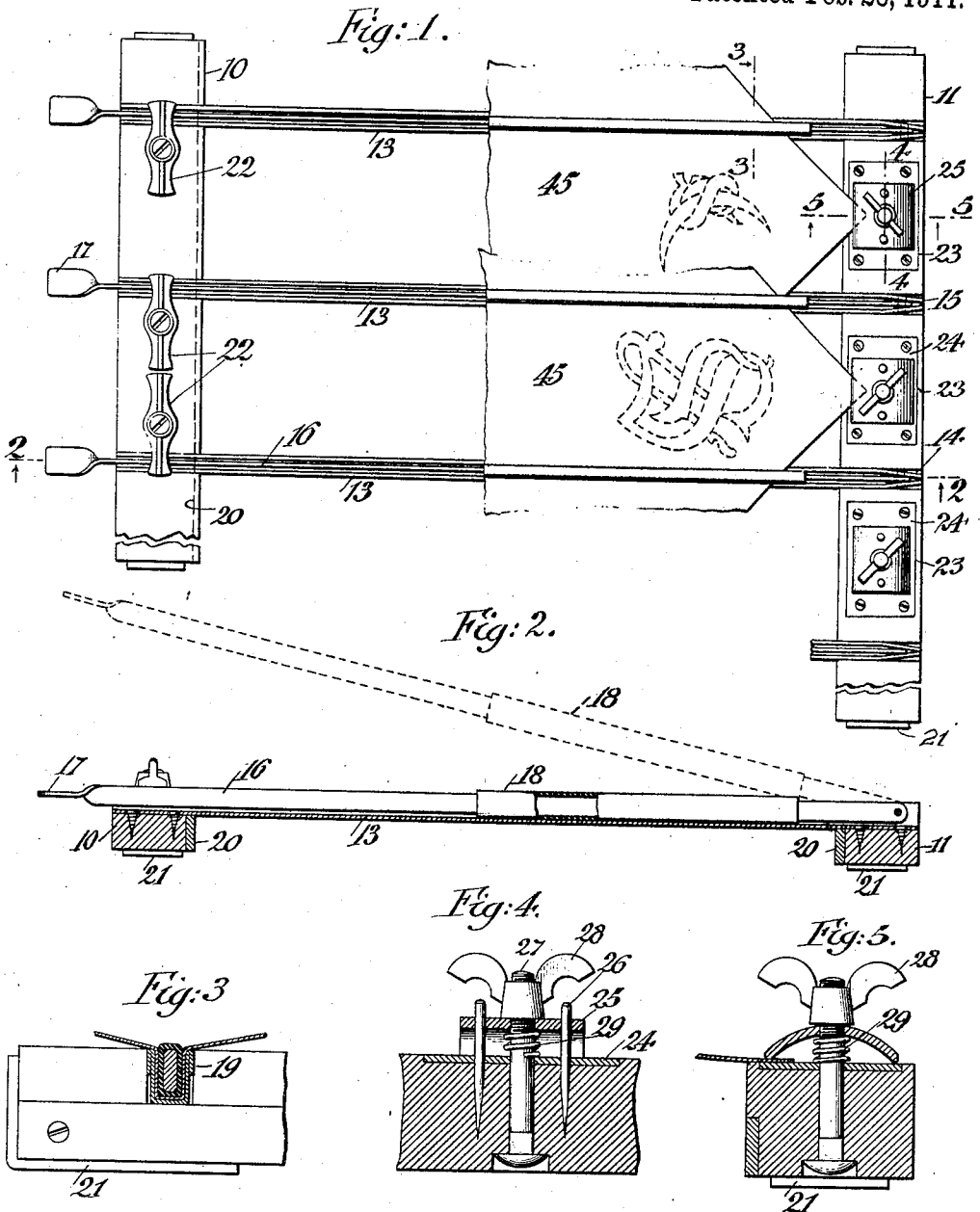


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EMBROIDERY FRAME.
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985,453.

Patented Feb. 28, 1911.



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UNITED STATES PATENT OFFICE.

ADOLF ROMINGER, OF GUTTENBERG, NEW JERSEY.

EMBROIDERY-FRAME.

985,453.

Specification of Letters Patent.

Patented Feb. 28, 1911.

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To all whom it may concern:

Be it known that I, ADOLF ROMINGER, a citizen of the German Empire, and a resident of Guttenberg, county of Hudson, and State of New Jersey, have invented certain new and useful Improvements in Embroidery-Frames, of which the following is a specification.

This invention relates to embroidery frames or devices for holding pieces of cloth, handkerchiefs or the like in tightly stretched condition where they may be easily embroidered.

The object of this invention is to provide a device of this kind which can be very easily operated to cause the same to hold in a stretched condition the piece of cloth being embroidered, in such a manner that the fabric will not be in any way injured.

Referring to the drawings, Figure 1 is a plan view of the device, Fig. 2 is a longitudinal sectional view taken on the line 2-2 of Fig. 1, parts being omitted, Fig. 3 is a sectional view taken on the line 3-3 of Fig. 1, and Figs. 4 and 5 are sectional views taken respectively on line 4-4 and 5-5 of Fig. 1.

Similar reference characters indicate corresponding parts throughout the several figures.

Referring more particularly to the drawing, the frame of the device is shown comprising a rear piece 10, a forward piece 11 and a plurality of upwardly opening channel bars 13 suitably secured as shown in Fig. 2, in transverse grooves 14 in said pieces. The forward ends 15 of the edges of each channel bar 13 are brought slightly together to form a snug seat in which are pivotally received the forward ends of the pivoted clamping bars 16, said clamping bars being twisted to form manipulating portions 17 at their rear ends, and covered at their intermediate parts with a tubular rubber covering 18 whereby the clamping bar is prevented from cutting the fabric. The channel bars 13 are very deep relatively to their width, and the bars 16, are similarly constructed being very narrow. This narrow structure permits a close spacing of the channel bars. The channel bars are so formed that the side edges 19 of said bars are folded outwardly and tightly back upon themselves as clearly shown in Fig. 3. The object of this is that by this arrangement a cutting of the fabric is prevented.

The forward and rear pieces 10 and 11 are both provided at their inner faces with metallic strengthening strips 20, running substantially the full length of the pieces, so as to prevent the warping of the same, and at their ends protecting angle plates 21 are provided to prevent the ends of the pieces from being injured and splitting and the like or unnecessary wear is prevented. Fasteners 22 are provided at the top face of the rear piece 10 for holding the clamping bars within the channel bars.

Between the forward ends of adjacent channel bars and upon the top face of the forward piece 11, clips 23 are provided for holding the corners of handkerchiefs or any convenient part of other material being operated upon. These clips comprise a stationary protecting plate 24 suitably secured to the top face of the forward piece 11, and a curved clamping plate 25 vertically movable upon guide pins 26 and upon the bolt 27 passed through said forward piece. Said bolt is provided with a suitable nut 28 for forcing the curved plate 25 downwardly against the protecting plate 24, while a helical spring 29 is interposed between said plates to move said curved plate upwardly against the action of the nut 28.

The operation of the device is as follows:—A portion of the material to be worked upon, for instance, the corner of a handkerchief 45 is secured in the clip 23, then one of the adjacent clamping bars is opened and the material laid across the channel bar, after which the clamping bar is forced into place in the channel bar and secured therein by means of the fastener 22, then the fabric is drawn fairly tightly across the other adjacent channel bar and clamped with the corresponding clamping bar in a similar manner. When this has been done it will be found that the material is very tightly stretched between two adjacent clamping bars, after which the material may be operated upon by hand or machine in the usual manner.

It is understood that various changes may be made in the arrangement, sizes and details of the various parts of this device without departing from the scope of the invention.

This device is adapted to hold any desired material for any operation and is not limited to the use of embroidering on fabrics, or to small articles since it is obvious that

the device may be made in very large sizes if the occasion should require it.

Having thus described my invention I claim as new and desire to secure by Letters
5 Patent:

In a device of the character described, a pair of forward and rear frame-pieces provided with transverse grooves and strengthening strips and plates, a plurality of spaced
10 channel bars having outwardly folded side edges and brought together ends and secured in said grooves, rubber covered clamping bars pivoted between said brought together
15 channel bars and provided with rearwardly extending manipulating portions, clamping bar fasteners carried by the rear frame-

piece, protecting plates carried on the upper face of the forward member, pins and a bolt projecting through each protecting plate into said forward frame-piece, a curved clamping plate vertically movable on said pins and bolt, a nut on said bolt adapted to press said curved plate downwardly and a spring interposed between said curved plate and said protecting plate.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

ADOLF ROMINGER.

Witnesses:

PAUL GOEPEL,
JOHN MURTAGH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
