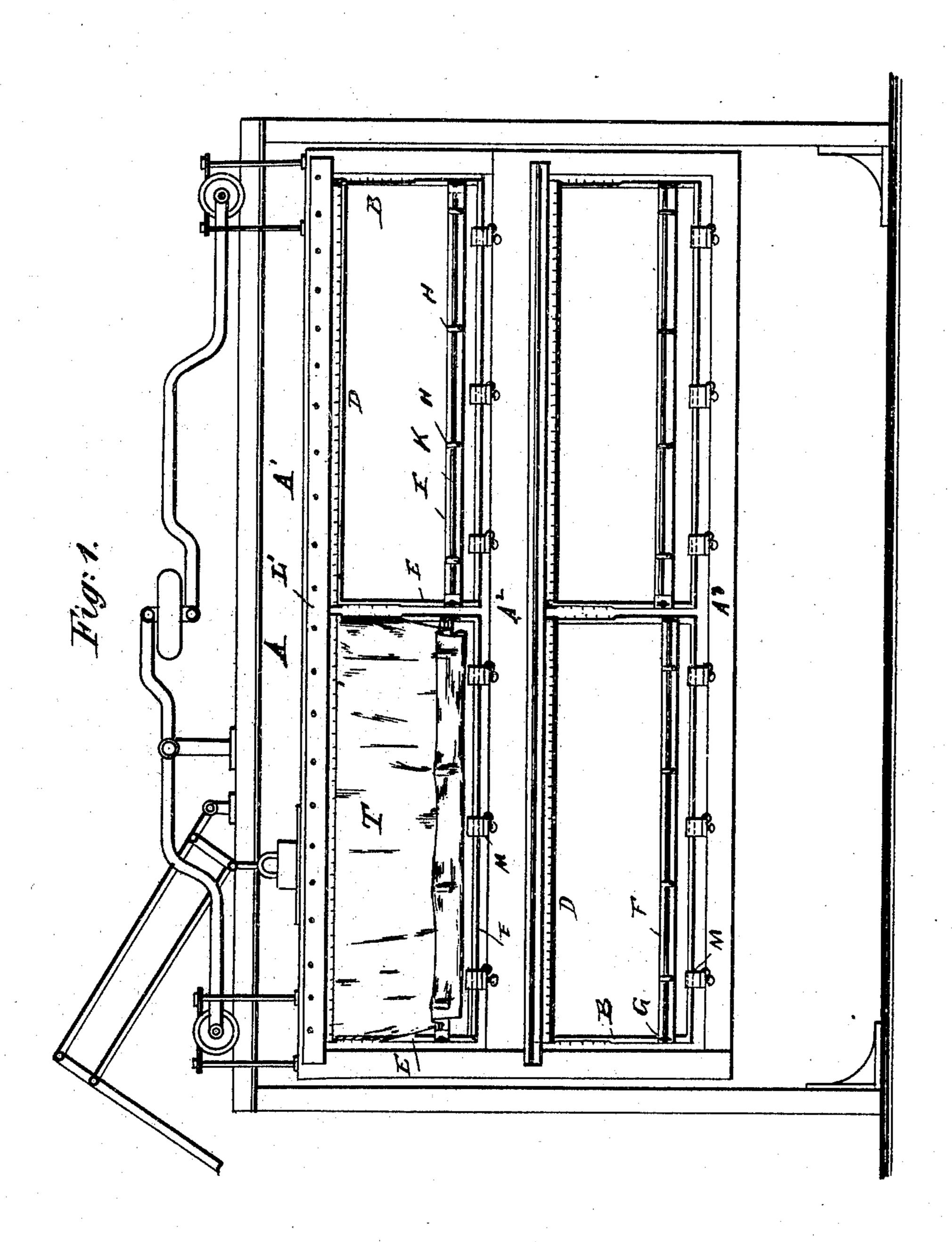
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FABRIC HOLDER FOR EMBROIDERING MACHINES.

No. 502,463.

Patented Aug. 1, 1893.



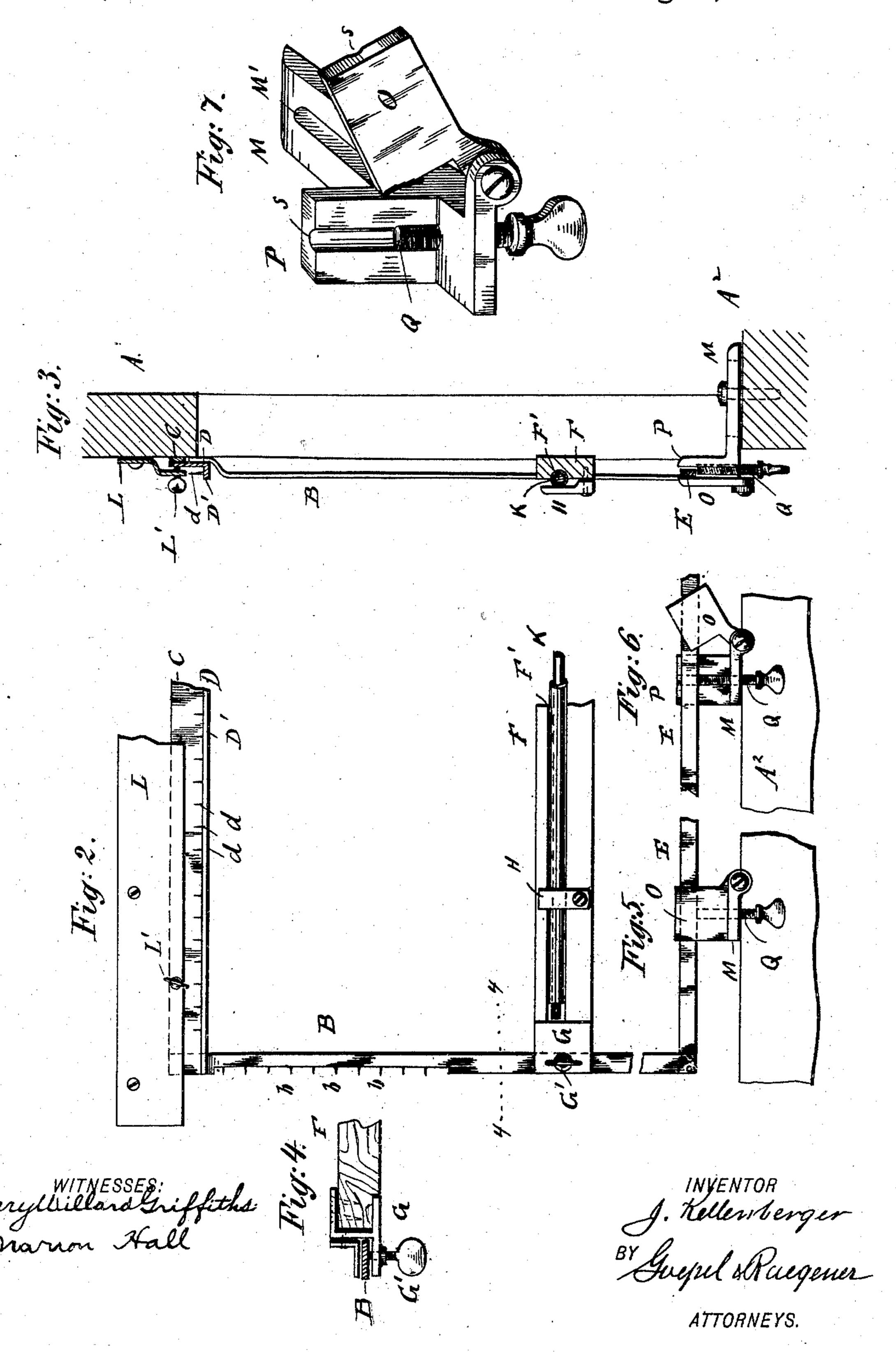
Harry Witnesses: Staffiths Tharian Hall J. Kellenberger By Gupel Rougener

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United States Patent Office.

JOHN KELLENBERGER, OF WEST HOBOKEN, NEW JERSEY.

FABRIC-HOLDER FOR EMBROIDERING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 502,463, dated August 1, 1893.

Application filed December 28, 1892. Serial No. 456,585. (No model.)

To all whom it may concern:

Be it known that I, John Kellenberger, of West Hoboken, in the county of Hudson and State of New Jersey, have invented cer-5 tain new and useful Improvements in Fabric-Holders for Embroidering-Machines, of which the following is a specification.

This invention relates to improvements in fabric-holders for embroidery frames; and the to object of my invention is to provide a device for holding larger pieces of fabric in the frame of the well known Heilmann and like embroidery machines in such a manner that the fabric can easily be applied and removed and can

15 be stretched taut for embroidering.

The invention consists in a fabric-holding frame constructed with end-bars having pin projections from the side-edges, a flanged top-bar uniting the end-bars and provided 20 with upwardly-projecting pins on its flange, a bottom bar, a stretching bar between the end-bars, means for holding the ends of the fabric to the stretching bar and means for holding said stretching bar at a different ele-25 vation between the end-bars.

The invention also consists in the construction and combination of parts and details which will be fully described hereinafter and finally pointed out in the claims.

30 In the accompanying drawings, Figure 1 is a front-elevation of the tambour frame of the well-known Heilmann embroidery machine provided with my improved fabric-holder. Fig. 2 is an enlarged detail elevation of my 35 improved fabric-holder, parts being broken out. Fig. 3 is a vertical transverse sectional view of the frame and holder. Fig. 4 is a horizontal sectional plan view, on the line 44, of Fig. 2. Figs. 5 and 6 are front-views of 40 the bottom clamp in a different position, and Fig. 7 is a perspective view of said bottom clamp.

Similar letters of reference indicate corre-

sponding parts.

The usual main frame A of the Heilmann machine is provided with the top, intermediate and bottom bars A', A2 and A3, and between said bars A' and A2, A3 a number of my improved fabric-holding frames are ap-50 plied.

My improved fabric-holding frame is constructed with two flat metal end-bars B pro-

vided on the outer edge with prongs or pins b at the upper half. Said end-bars B are connected at the top by a bar C, and to the front 55 of the same a bar D is riveted, which is provided on its bottom with an outwardly-projecting flange D' and with the upwardly-projecting pins d throughout the entire length of said flange. The lower ends of the end- 60 bars B are connected by the metal bar E. A stretching bar F having a longitudinal groove F' in its front is arranged between the endbars and is provided at each end with a grooved clip G, in the groove of which the 65 end-bars B fit. A clamping-screw G' is provided on each end-piece G for the purpose of holding the same in position on the end-bars B. A series of buttons H is pivoted to the front of the bar F. The piece of fabric T 70 to be embroidered, for instance an infant's shawl, is engaged along one edge with the pins d and the end parts of the fabric are engaged with the pins b projecting from the side-edges of the end-bars B and parts of the 75 shawl are pressed into the groove F' of the bar F by means of a rod K covered with rubber, which rod is held in place by swinging the button H over it. The stretching bar F is then moved downward until the fabric is 80 drawn taut in the frame, and then said bar F is locked in place by drawing up the thumbscrews G'. The bars A' and A2 of the machine frame are provided along their bottom edges with flanged strips L having thumb- 85 screws L'. The upper edge of the top-bar C and the flanged bar D of my improved fabricholding frame are passed under said angleplates L and are held by drawing up the thumb-screw L'. On the upper surface of 90 the bar A² and the bar A³ of the main-frame a series of angle-clips M is held by screws passing through longitudinal slots M' in said angle-clips into the tops of said bars A² A³ to permit of adjusting the clips forward and 95 back. To the front end of each clip a wing O is pivoted, and between said wing O and the upwardly-projecting lug P of the clip a screw Q is screwed through the bottom of the clip, said lug P and the wing O being provided 100 in their inner surfaces with a semi-circular groove S through which the screw can pass. The adjacent surfaces of said lug P and the wing O are such a distance from each other

that the bottom bar E of my improved fabricholding frame can pass in between them and can rest on the upper ends of the screws Q. After the upper bar C has been passed under the angle-plate L and the bottom bar E of the fabric-holding frame has been rested upon the screws Q the wings O are swung in front of the lugs P, as shown in Fig. 5; then the screws P are turned to move the entire fabricholding frame upward and when it is in proper position the thumb screws L' are drawn up. The entire fabricholding frame is thus held firmly and securely in the main frame of the embroidery machine and the embroidering operation can take place.

My improved frames can easily be applied on the machine and readily removed and can be very finely adjusted by means of the screws Q, and the screws passing through the slots

20 M' of the angle-clips M.

set forth.

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

1. The combination, with two end-bars having pins formed on their outer edges, of a flanged cross-bar having upwardly-projecting pins on its flange, a bottom cross-bar, a stretching bar mounted between the end-bars and movable between the top and bottom bars, means for locking said stretching bar in place on the end-bars and means for holding the fabric to said stretching bar, substantially as

2. The combination, with end-bars having pin projections on their outer edges, of a top

flange provided with upwardly-projecting pins, a bottom bar uniting the end-bars, a stretching bar between the end-bars and having grooved clips through which the end-bars 40 pass, screws in said clips for locking the stretching bar in place, a holding rod in a longitudinal groove of the clamp-bar and buttons for holding said holding rod in place, subtantially as set forth.

3. In an embroidering machine, the combination, with the main-frame, of angle-clips on the same, wings pivoted to said angle-clips, screws passed through the angle-clips behind the said wings and means for holding the 50 upper parts of a fabric-holding frame to the bars of the main-frame, substantially as set

forth.

4. In an embroidering machine, the combination, with an angle-clip having an upward-55 ly-projecting lug provided with a groove in its front surface, of a wing pivoted to the clip in front of said lug, which wing is also provided with a longitudinal groove in its rear surface, and a screw screwed through the bottom of the clip between the wing and said lug, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in pres-

ence of two subscribing witnesses.

JOHN KELLENBERGER.

Witnesses:

OSCAR F. GUNZ, HARRY WILLARD GRIFFITHS.