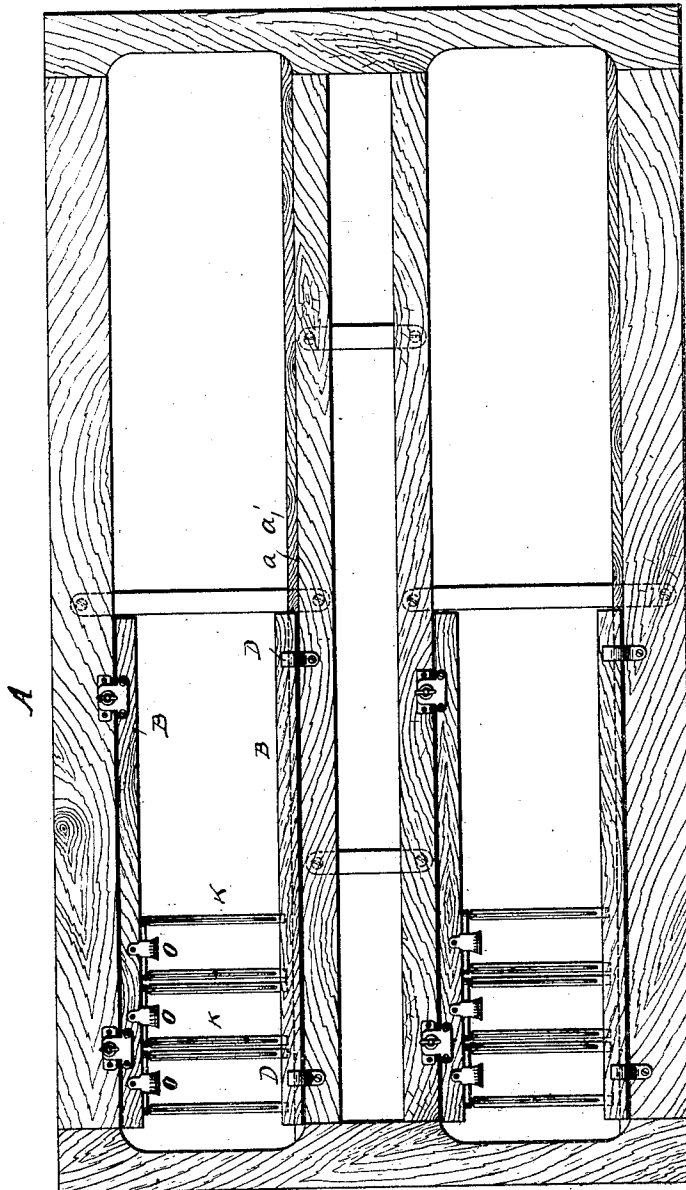


(No Model.)

2 Sheets—Sheet 1.

H. HOCHREUTENER.
TAMBOUR FRAME FOR EMBROIDERING MACHINES.
No. 462,486. Patented Nov. 3, 1891.

FIG. 1.



WITNESSES:

Marion Hall

Charles Bhs

INVENTOR

H. Hochreutener

BY

Frederick Regener

ATTORNEYS.

(No Model.)

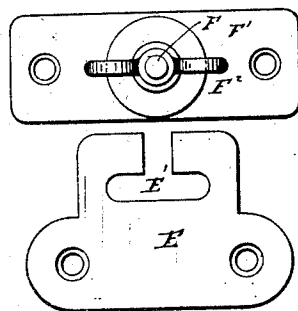
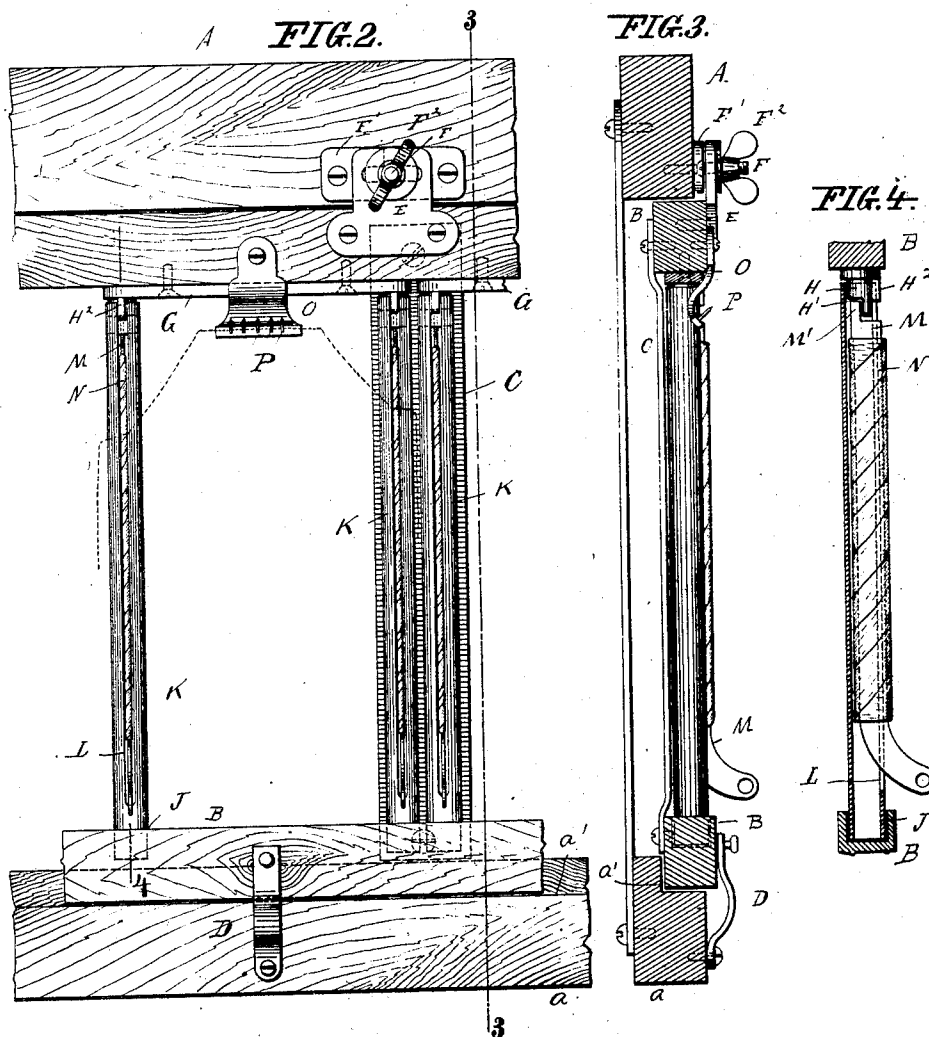
2 Sheets—Sheet 2.

H. HOCHREUTENER.

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No. 462,486.

Patented Nov. 3, 1891.



WITNESSES:
Marion Hall
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FIG. 5.

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UNITED STATES PATENT OFFICE.

HENRY HOCHREUTENER, OF NEW YORK, N. Y.

TAMBOUR-FRAME FOR EMBROIDERING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 462,486, dated November 3, 1891.

Application filed July 29, 1891. Serial No. 401,049. (No model.)

To all whom it may concern:

Be it known that I, HENRY HOCHREUTENER, a citizen of the United States, residing at New York city, in the county of New York, and State of New York, have invented certain new and useful Improvements in Embroidering-Machines, of which the following is a specification.

This invention relates to improvements in the well-known Swiss embroidery-machines; and the object of my invention is to provide frames for holding the pieces of fabric in the tambour-frame of the embroidering-machine while the same are being embroidered.

The invention consists in the combination, with the usual tambour-frame of a Swiss embroidery-machine, of frames fitting in the openings of the tambour-frame and composed of top and bottom bars, metal pieces secured to the bottom edges of the upper bars and provided on their ends with plugs, slotted tubes having their lower ends inserted in apertures in the bottom bars, the said plugs on the metal pieces being inserted in the upper ends of said tubes, and flat presser-bars fitting in the slots of the tubes and provided at their upper ends with spurs adapted to pass into the notches of the plugs.

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

In the accompanying drawings, Figure 1 represents a face view of the tambour-frame of an embroidering-machine provided with my improved fabric-holder. Fig. 2 is an enlarged detail elevation of the fabric-holder. Fig. 3 is a vertical transverse sectional view of the same on the line 3 3 of Fig. 2. Fig. 4 is a detail longitudinal sectional view on the line 4 4 of Fig. 2, and Fig. 5 is an enlarged detail view of the fastening-clip.

Similar letters of reference indicate corresponding parts.

A represents a tambour-frame of a Swiss embroidery-machine, which frame is to be suspended in the usual manner. Into the openings of said tambour-frame A the bars B are placed, which are united at suitable intervals by vertical cross-pieces C. The bottom bars a of each section of the tambour-frame are provided with a shoulder a' for holding the

bottom rails B, and said bottom rails of each section are also provided with the clips or buttons D for holding said bottom rails B in place. The upper rails B are provided near each end with a clip E, which is attached in such a manner that when the rails B B are in place said clips project over the face of the upper bars of the tambour-frame, said clips being each provided with a T-shaped notch E' in the upper edge, said notches serving to receive a screw F, projecting from a plate F', fastened on the faces of the upper bars of the tambour-frame, and on which screws the winged nuts F² are screwed. By drawing up said nuts the bars B B can easily be held and fastened in the tambour-frame.

To the under surface of each upper bar B a series of short metal pieces G are secured end to end, and from each end of each piece G a cylindrical plug H projects downward and is provided at its lower end with a notch or off-set H' and on the front with a feather H². Directly below said plug H cylindrical holes J are formed in the upper edge of the bottom bar B, and into said holes the lower ends of tubes K are placed. Each tube K is provided in its front with a longitudinal slot L, adapted to receive a presser-bar M, consisting of a flat strip of metal having its lower end bent outward and having its upper end notched to form a spur M', adapted to pass into a notch H' of a corresponding plug H, said presser-bars M being each provided with a covering N of fabric, rubber, cord, or other suitable material. The plugs H pass into the upper ends of the tubes K, the feathers H² passing into the upper ends of the tubes K and preventing them from turning. At the center of each metal piece G a clip O is attached to the front of the upper bar B, and is provided on its lower slightly-curved part with a series of upwardly-inclined pins P. To fasten the fabric to be embroidered—for example, a handkerchief—one corner of the same is hooked on the pins P, as shown in dotted lines in Fig. 2, and placed over the corresponding two tubes K and drawn taut. Then the spur M' of a presser-bar is passed through the upper part of the slot L of the corresponding tubes K, and said spurs are inserted into the notches H' of the corresponding plugs H, and then the presser-bars are

gradually pressed into the slots L and draw part of the fabric in with them. Thereby the fabric is drawn absolutely taut, as is necessary for embroidering, and at the same time
 5 securely held in place. After the articles have been embroidered the presser-bars are removed, and the pieces of fabric unhooked from the pins P and then removed. Instead of attaching the corner of a piece of fabric
 10 to the pins P, any other part of the fabric can be engaged by said pins.

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

15 1. In an embroidering-machine, the combination, with a tambour-frame, of frames fitting into the tambour-frame and constructed with top and bottom bars, longitudinally-slotted tubes held to said top and bottom bars,
 20 presser-bars fitting in the slots of said tubes, and clips secured to the upper bars midway between the slotted tubes and provided with pins, substantially as set forth.

25 2. In an embroidering-machine, the combination, with a tambour-frame, of frames fitting into the same and composed of top and bottom bars united by cross-pieces, short metal pieces secured to the bottom edges of the upper bars, plugs projecting downward from
 30 the end parts of said metal pieces and pro-

vided in the front with a feather and in the rear with a notch, longitudinally-slotted tubes having their lower ends rested in apertures in the bottom bars, the above-mentioned plugs fitting into the upper ends of said slotted
 3 tubes, presser-bars provided at their upper ends with spurs adapted to enter the notches of the plugs, and clips fastened to the upper bars midway between the plugs and provided with pins, substantially as set forth. 40

3. In an embroidering-machine, the combination, with a tambour-frame, of frames fitting in the same and composed of top and bottom bars united by cross-pieces, metal
 45 pieces secured to the bottom edges of the upper bars of said frame, notched plugs projecting downward from the ends of said metal pieces, longitudinally-slotted tubes having their lower ends placed in apertures of the
 50 bottom bars and having their upper ends fitted on the plugs of said metal pieces, and presser-bars fitting in the slots of the tubes, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses. 55

HENRY HOCHREUTENER.

Witnesses:

OSCAR F. GUNZ,
 CHARLES SCHROEDER.