

(No Model.)

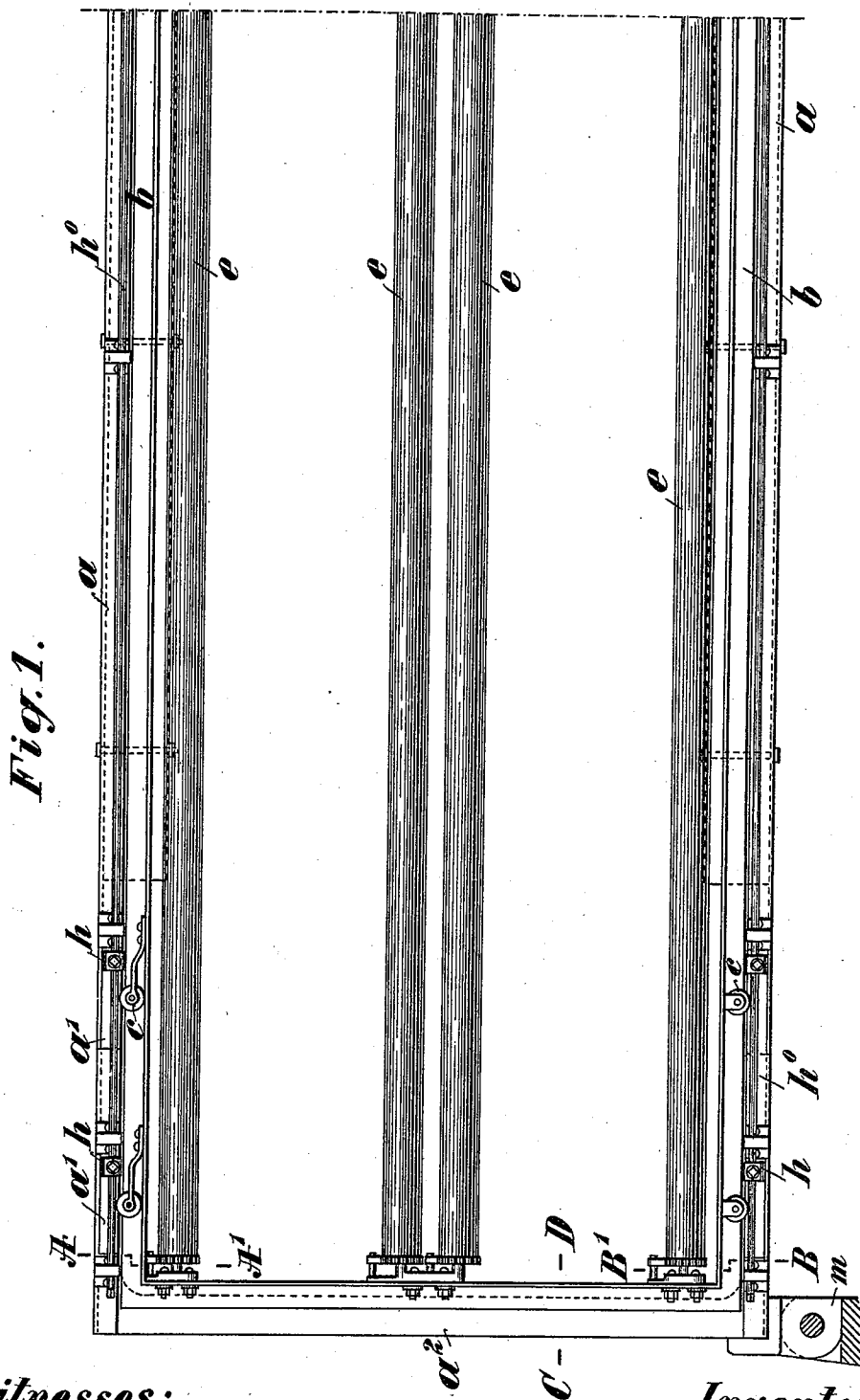
5 Sheets—Sheet 1.

A. HARDEGGER.

FABRIC HOLDING FRAME FOR EMBROIDERING MACHINES.

No. 511,522.

Patented Dec. 26, 1893.



Witnesses:
Charles Schroeder.
William Diefen

Inventor:
A. Hardegger
by Gospel & Raegen
Attorneys.

(No Model.)

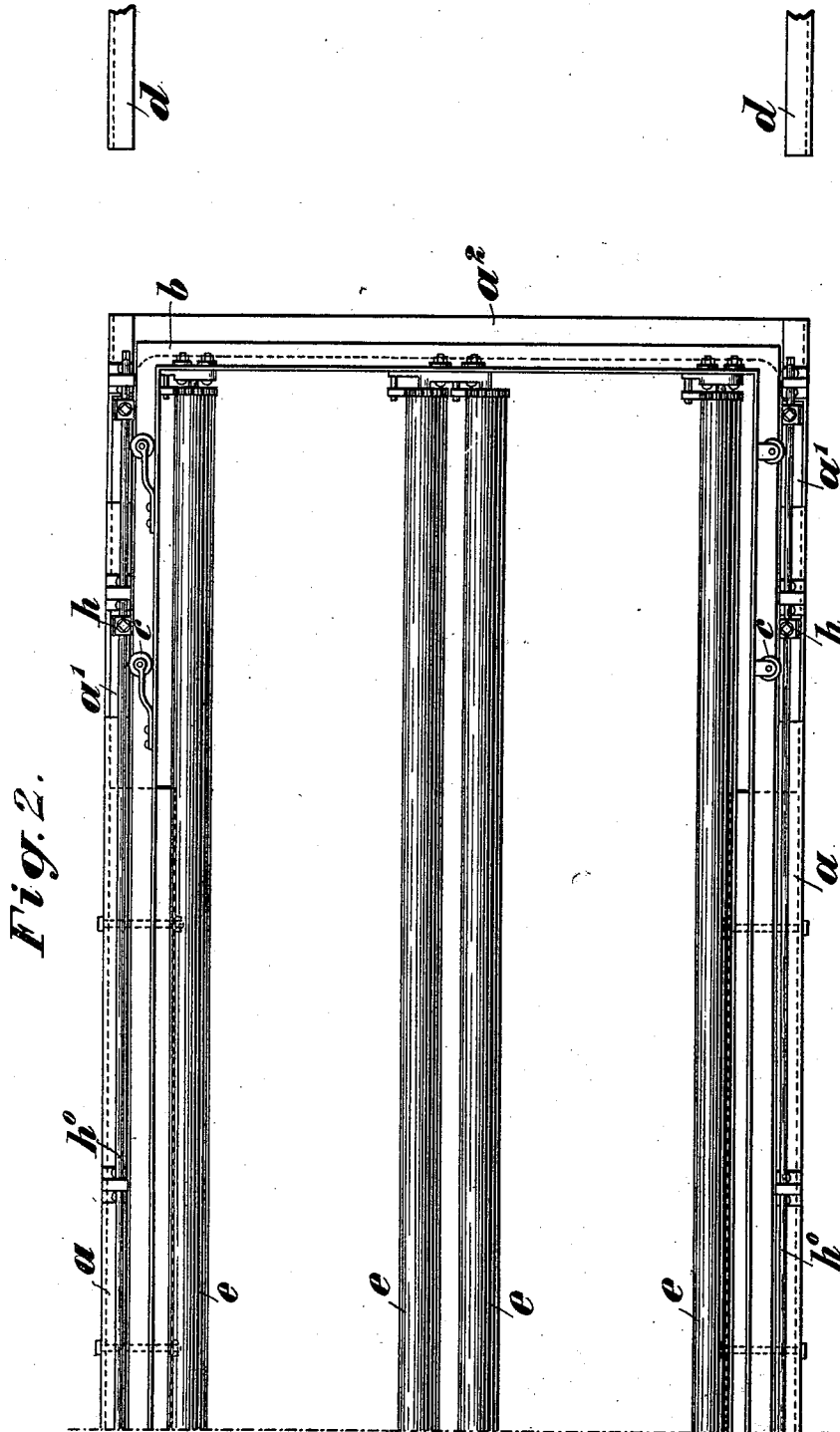
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(No Model.)

5 Sheets—Sheet 3.

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Fig. 3.

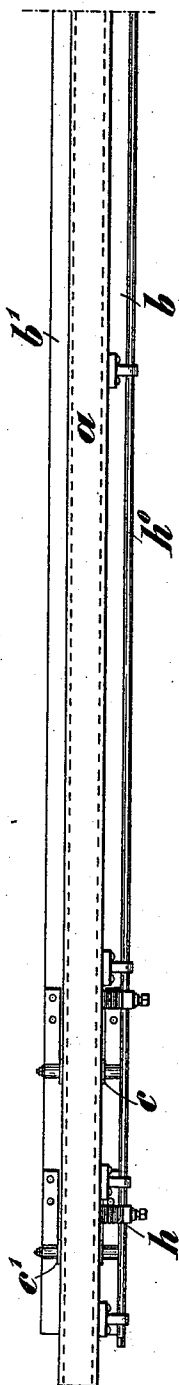
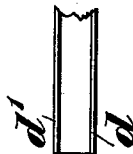
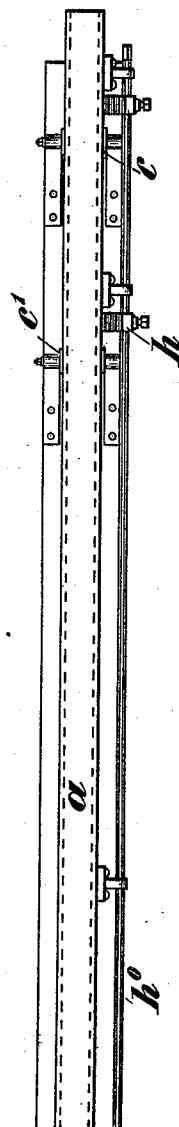


Fig. 4.



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Fig. 5.

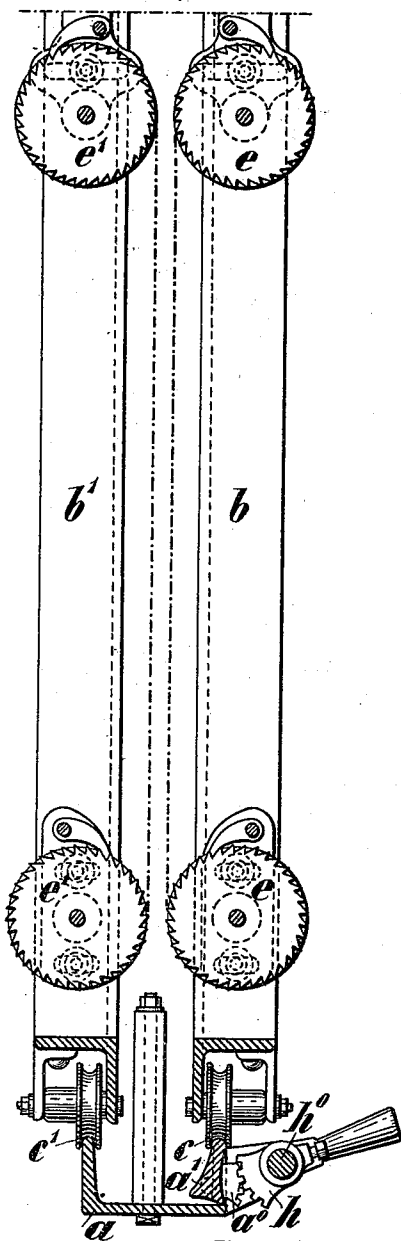


Fig. 6.

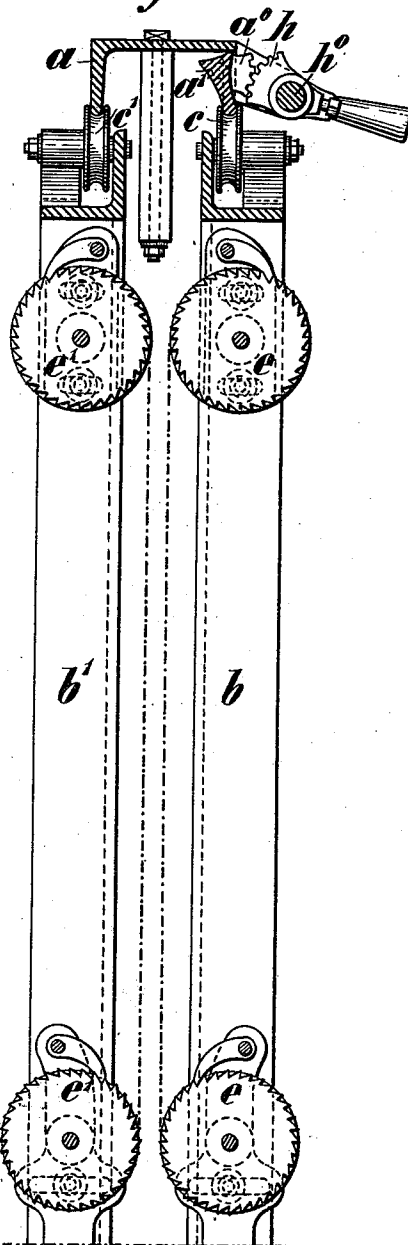
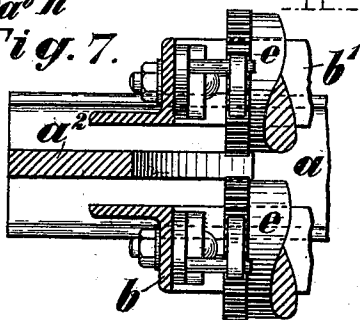


Fig. 7.



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(No Model.)

5 Sheets—Sheet 5.

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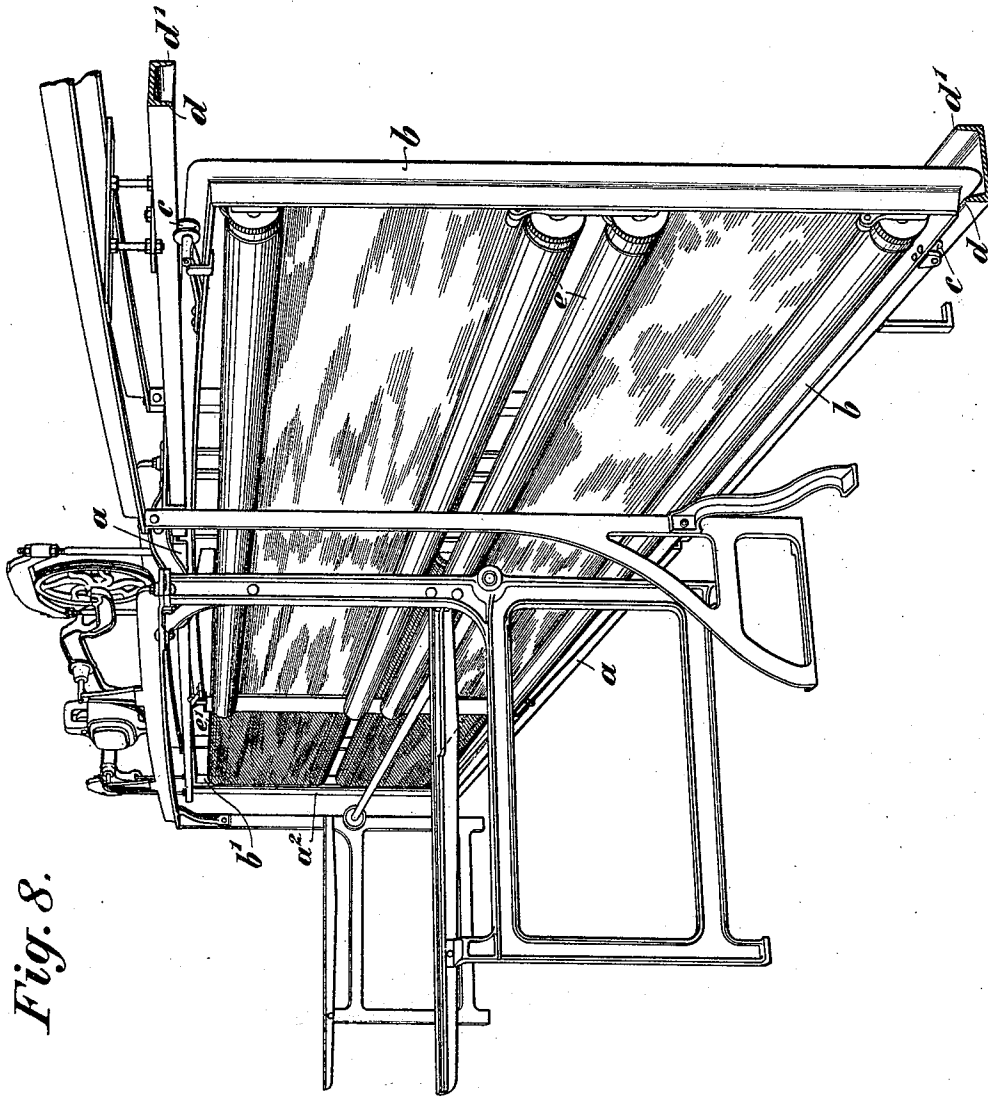


Fig. 8.

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UNITED STATES PATENT OFFICE.

ARNOLD HARDEGGER, OF FLAWYL, ASSIGNOR TO ALFRED MEYER-KREIS,
OF ST. GALL, SWITZERLAND.

FABRIC-HOLDING FRAME FOR EMBROIDERING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 511,522, dated December 26, 1893.

Application filed July 26, 1892. Serial No. 441,270. (No model.) Patented in Switzerland January 27, 1892, No. 4,478.

To all whom it may concern:

Be it known that I, ARNOLD HARDEGGER, a citizen of the Republic of Switzerland, residing at Flawyl, near St. Gall, Switzerland, have invented certain new and useful Fabric-Holding Frames for Embroidering-Machines, (for which there is obtained a patent in Switzerland, No. 4,478, bearing date of January 27, 1892,) of which the following is a specification.

This invention relates to improvements in fabric-holders for embroidering-machines.

The object of my invention is to provide a fabric-holder which is so constructed that two pieces of fabric can be held upon the same in such a manner that the two fabrics can be united by embroidery so exactly and in so simple a manner as is not possible by the methods or devices used heretofore.

By using the double fabrics, certain figures, for example, reliefs, figures upon each other and crossing each other are produced, the same figure on both fabrics being obtained in the most perfect manner.

In the accompanying drawings, Figures 1 and 2 are enlarged detail views of the end sections of my improved fabric holding frames for embroidering machines. Figs. 3 and 4 are plan views on an enlarged scale of the parts shown in Figs. 1 and 2. Figs. 5 and 6 are sections on the lines A A' and B B', Fig. 1, on an enlarged scale. Fig. 7 is a section on the line C D, Fig. 1, shown on an enlarged scale, and Fig. 8 is a perspective view of my improved fabric holding frame for embroidering machines.

Similar letters of reference indicate corresponding parts.

In the main-frame *a* two fabric-holding frames *b b'* are arranged and are provided with rollers for holding taut the fabric. The frame *b* is at the front and the frame *b'* at the rear. The rear-frame *b'* can be shifted in the direction of its length off from the main-frame *a*, upon tracks *d d'* thus permitting of embroidering on one piece of fabric or when said frame has not been shifted off upon two pieces at the same time. The main-frame *a* is in connection with a pantograph in the same manner as in ordinary embroidering-

machines and therefore this construction need not be shown. The top and bottom bars of the main-frame *a* are composed of C-bars, the flanges of which form tracks for the rollers *c* and *c'* of the removable fabric-holding frames *b* and *b'*. For example, when only one piece is to be embroidered, then either the front or rear fabric-holding frame is run out of the way upon the tracks *d* and *d'*, which tracks can be fastened on any wood or iron frame, but when both pieces of fabric are to be embroidered, then the removed frame is again brought back into the main-frame *a*. Suitable locking devices may be provided or a stop-piece *m*, as shown in Fig. 1, against which the fabric holding frame can abut to limit the movement of the movable fabric-holding frame and bring the same into proper position. While the operation of embroidering is in progress, the two pieces of fabric to be embroidered and which are side by side must be as close to each other as possible. But when in this position, neither of the fabric holding frames can be run off the main frame as the rollers thereof would strike against the vertical braces *a²* of the horizontal beams of the main frame *a*. It is therefore necessary to make provision for moving the fabric holding frame away from the other in a direction transversely to said frames. For this purpose one of the two frames *b* or *b'* is mounted to move the distance of about two centimeters forward and backward. To permit of such adjustment, the flanges of the main frame, on which the rollers *c* of the fabric holding frame run, are hinged at *a'*, which can be moved forward and backward by means of toothed segments *a^o* that engage toothed segments *h* fixed on a longitudinal shaft *h^o* that is provided at one end with a handle, so that when said handle is turned and the rollers *c* are on the hinged parts *a'*, said rollers *c* and their frame *b* can be moved toward or from the longitudinal central plane of the frame *a*. In the case shown, where the front frame *b* is to be shifted out of the main-frame *a*, a proper opening must be left in the main-frame in the end parts thereof to permit of shifting said fabric-holding frame in the direction of its length.

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

1. In an embroidery machine, the combination with a main frame of two independently shiftable fabric-holding frames, each of the latter being approximately of the size of the main frame, said main-frame supporting the fabric-holding frames, and being provided with means whereby said fabric-holding frames may be moved parallel with each other and out of or into the main-frame, so as to cover the main-frame, substantially as set forth.

2. In an embroidering-machine, the combination, with a main fabric frame provided with a plurality of tracks, of longitudinally shiftable fabric-holding frames held in the main frame, rollers on said longitudinally shiftable frames, which rollers run on the tracks of the main-frame, substantially as set forth.

3. In an embroidering-machine, the combination, with a main fabric frame, of longitudinally movable frames in said main-frame, which longitudinally shiftable frames are

provided with devices for holding the fabrics, and means for moving said longitudinally shiftable frames laterally toward and from the longitudinal central plane of the main-frame, substantially as set forth.

4. In an embroidering machine, the combination, with a main frame provided with a plurality of tracks, of longitudinally shiftable frames in the main frame, fabric holding devices on said longitudinally shiftable frames, rollers on the said longitudinally shiftable frames, which rollers run on the tracks of the main frame, said tracks comprising hinged pieces on which the rollers of the longitudinally shiftable frames run, and means for swinging said hinged pieces, substantially as set forth.

In testimony whereof I hereunto sign my name, in the presence of two subscribing witnesses, this 1st day of July, 1892.

ARNOLD HARDEGGER.

Witnesses:

ADOLF FORTER,

ALBERT ANDERY REDACKSOR.