

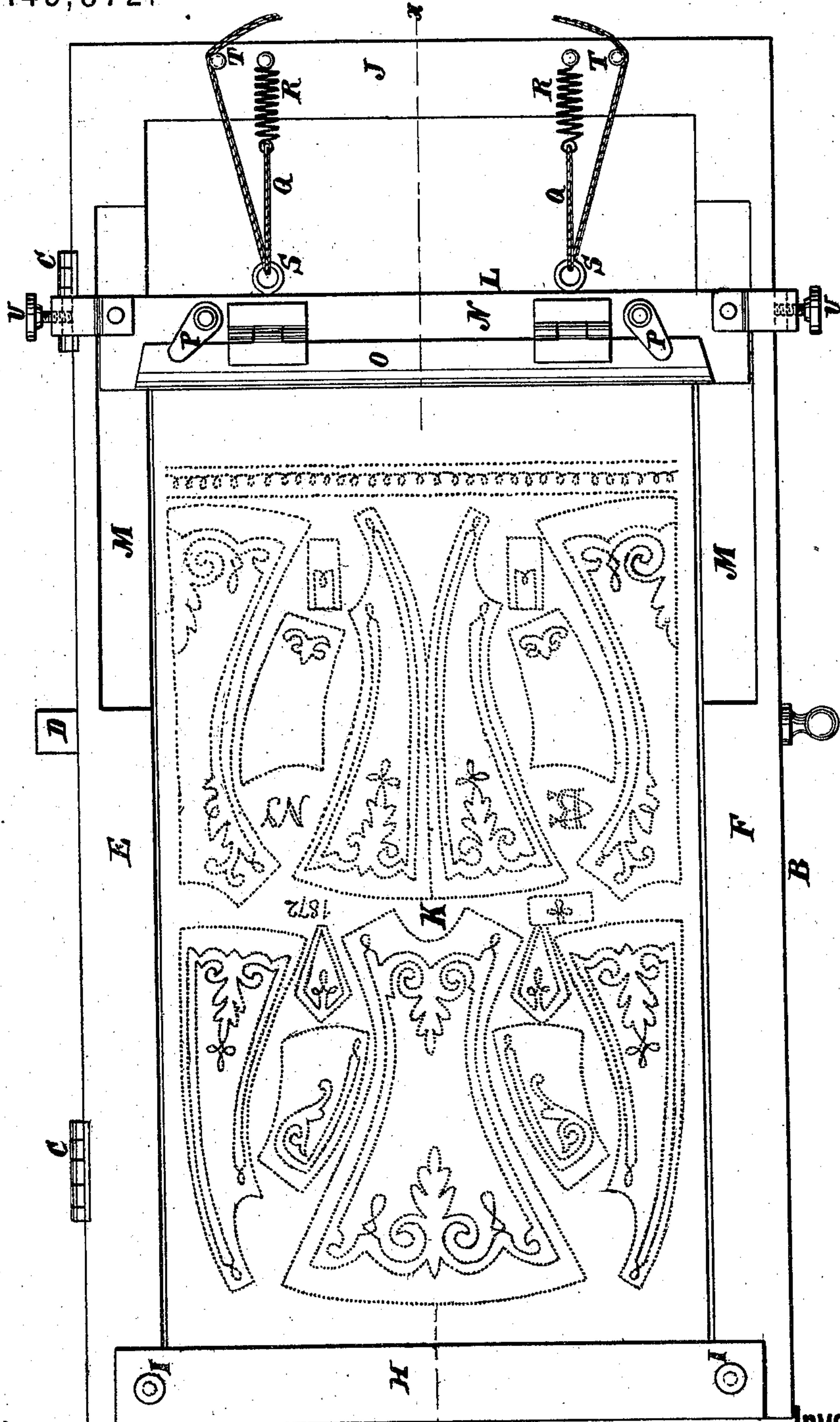
C. BORDAS.

Apparatus for Transferring Embroidery Patterns.

No. 143,872.

Patented Oct. 21, 1873.

Fig. 1.



Witnesses.

A. Bernecker
C. Guisier

Inventor.

Per

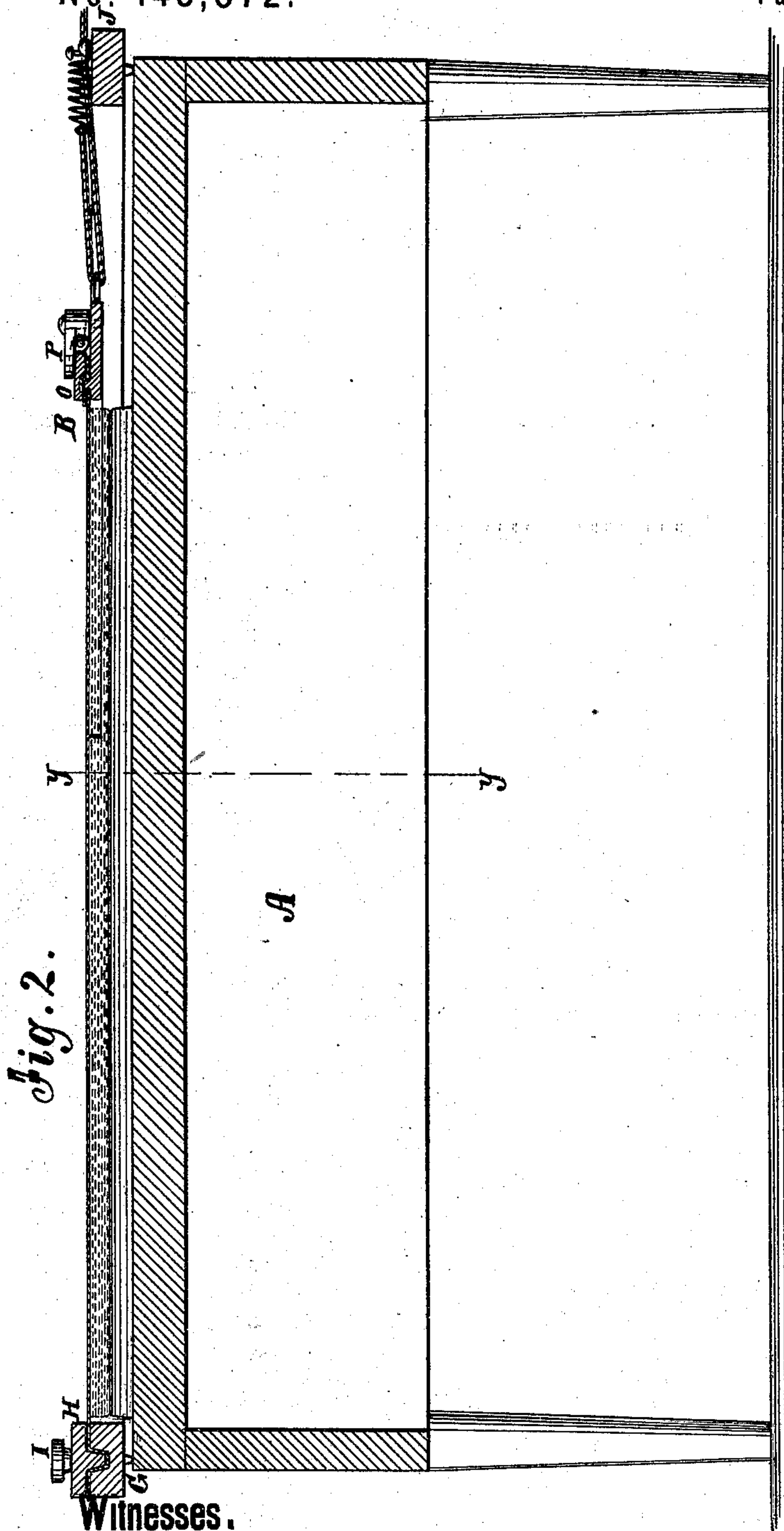
C. Bordas
Munnell
Attorneys.

C. BORDAS.

Apparatus for Transferring Embroidery Patterns.

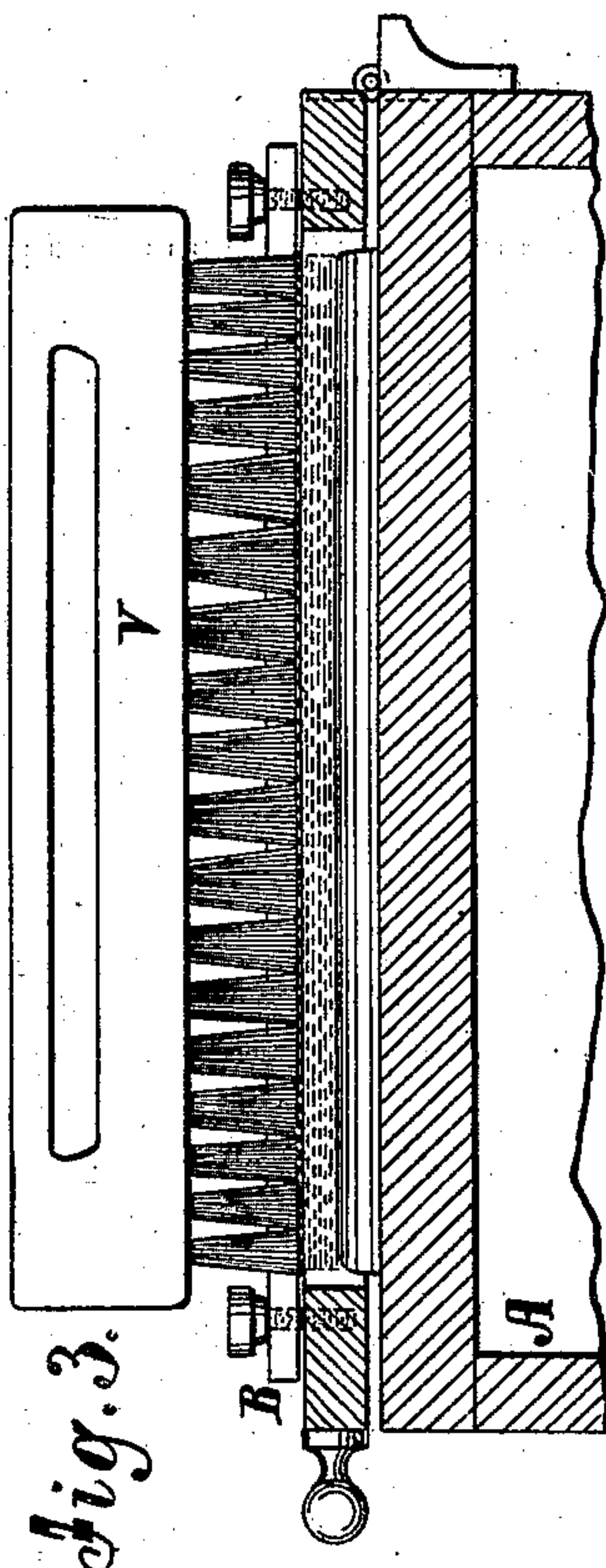
No. 143,872.

Patented Oct. 21, 1873.



Witnesses.

A Bernerendorf.
Schurick



Inventor.

C. Bordas

Per

Munnell
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES BORDAS, OF NEW YORK, N. Y.

IMPROVEMENT IN APPARATUS FOR TRANSFERRING EMBROIDERY-PATTERNS.

Specification forming part of Letters Patent No. **143,872**, dated October 21, 1873; application filed June 14, 1873.

To all whom it may concern:

Be it known that I, CHARLES BORDAS, of the city, county, and State of New York, have invented a new and useful Improvement in Apparatus for Transferring or Stamping Embroidered Patterns, &c., of which the following is a specification:

The object of this invention is to facilitate the operation of transferring embroidered designs, patterns, &c., from a perforated original pattern-sheet to other sheets of paper or other material; and it consists, mainly, in an adjustable apparatus for holding and giving tension to the original, the construction and arrangement of parts being as hereinafter set forth and described.

In the accompanying drawing, Figure 1, Sheet 1, is a top or plan view of the apparatus, showing the pattern-sheet in place as when ready for stamping. Fig. 2, Sheet 2, is a vertical longitudinal section of Fig. 1, taken on the line *x x*. Fig. 3, Sheet 2, is a vertical cross-section taken on the line *y y*.

Similar letters of reference indicate corresponding parts.

A is a table of proper size and height. B is the apparatus for holding and giving tension to the pattern-sheet, consisting of a frame and adjustable clamp attached to one side of the table by hinges C C, so that it can be turned up to a vertical position. D is a stop on the side of the table to hold the frame in an upright position. The frame B consists of two side pieces, E and F, a stationary end piece, G, which is grooved, and has fitted to the groove a removable clamp, H, fastened down to the end piece by the screws I I. (See Fig. 2.) J is the other end of the frame. The space between the sides E F admits the pattern-sheet K. One end of the sheet is confined to the end piece G by the clamp H. The other is confined by the adjustable clamp L, which is made to slide and be adjusted, according to the length of the sheet, in the recesses or rabbets M M of the sides E F. The adjustable clamp L consists of a bed-piece with a rib thereon and a hinged clamp, N, which has a groove which fits onto the rib of the bed, as seen at O, Fig. 2.

The end of the sheet is laid on the bed over the rib, and then the clamp is turned

down and fastened by means of the buttons P P. The clamp L is now drawn back, so as to give the sheet the proper tension to hold it smooth and keep it in position. It is adjusted by means of cords Q Q, the ends of which are attached to the spiral springs R R, and the other ends are passed through the eyes S S. The tension is given by drawing the cords back.

With springs the action of the cords is less rigid, and there is less liability to tear the sheet, while the degree of tension is readily observed by watching the springs.

When the proper tension is given, the cords are secured around the pins T T, and the clamp is fastened to the side pieces of the frame by the finger-screws U U.

The pattern-sheet may represent designs for embroidery or patterns of any kind, and a number of designs or patterns on the same sheet, as seen in the drawing.

The paper or material which is to receive the impression is laid upon the table, one sheet upon another, as seen in Fig. 2.

By the ordinary process this stamping, as it is called, through a perforated pattern is done with colored powder, and the pattern is held by the hand. A single pattern can only be used in this manner, on account of the difficulty in keeping it smooth.

By my improvement a number of patterns may be contained on the sheet, and stamped at one operation, as seen in Fig. 1.

Instead of using a powder, I use a liquid, with which the brush V is saturated.

When the pattern-sheet is properly stretched, the brush, which has been dipped in the liquid, is drawn over it, and the impression is made. The frame B with the pattern-sheet is then raised, and the impressed sheet is removed. The frame is again closed down, and the operation is repeated, and so on for any required period of time.

By this apparatus the labor and time required for transferring or stamping are greatly reduced, while the work is performed in a very superior manner.

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

1. A frame, B, a removable clamp, H, and

a sliding clamp, L, combined with a table, A, to enable the pattern-sheet to receive tension, in the manner described.

2. The eyes S, the cord O, and the spiral springs R, combined to enable the clamp to be conveniently adjusted to the proper degree.

3. A sheet-stretcher, L, constructed with a

ribbed bed-piece, and provided with a grooved and hinged clamp, as and for the purpose specified.

CHARLES BORDAS.

Witnesses:

T. B. MOSHER,

ALEX. F. ROBERTS.