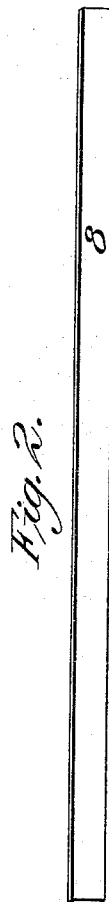
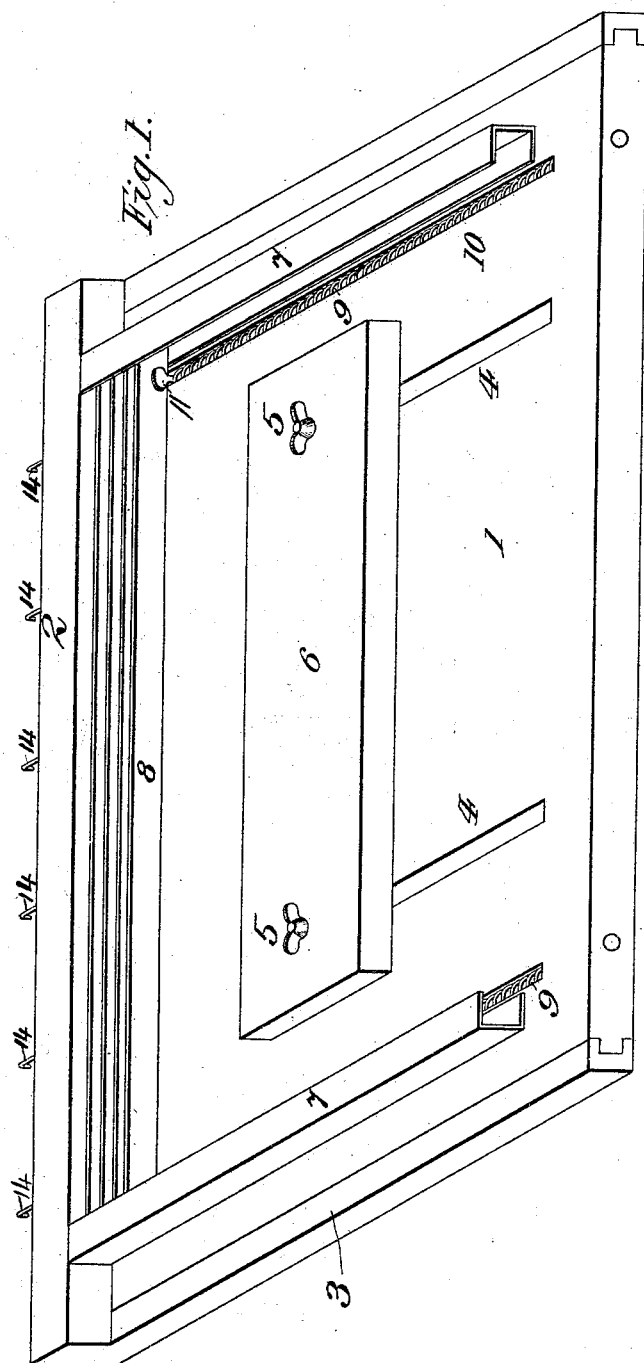


(No Model.)

E. E. HOWELL.
ACCORDION PLAING MACHINE.

No. 422,787.

Patented Mar. 4, 1890.



Witnesses:
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Clara E. Lane.

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UNITED STATES PATENT OFFICE.

ELIZABETH E. HOWELL, OF MARYVILLE, MISSOURI.

ACCORDION-PLAITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 422,787, dated March 4, 1890.

Application filed October 16, 1889. Serial No. 327,239. (No model.)

To all whom it may concern:

Be it known that I, ELIZABETH E. HOWELL, a citizen of the United States, residing at Maryville, in the county of Nodaway and State of Missouri, have invented a new and useful Apparatus for Making Accordion-Plaits, of which the following is a specification.

This invention relates to certain new and useful improvements in machines for making accordion-plaits; and it has for its object to provide an improved hand device of this character which shall be simple, cheap, and efficient.

The novelty resides in the peculiarities of construction and the combination, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which with the figures of reference marked thereon form a part of this specification, and in which—

Figure 1 is a perspective view of my improved plaiter. Fig. 2 is a like view of one of the slats removed.

Referring now to the details of the drawings by figures, 1 indicates the body or frame, having a head-piece 2 and end pieces 3 mortised to the ends of the body to prevent warping. The head-piece 2 is provided with hooks or the like 14. The body or plate 1 has slots 4 4 cut therein parallel with the ends of the plate or body, in which slots work the thumb-screws 5 5, carried by the follower 6, and which serve to hold the follower in its adjusted position. The body or plate 1 is also formed with slots 9 9 near the ends thereof and parallel with the slots 4 4, and in which are arranged the spiral springs 10 10, which are provided with metal thumb-screws, knobs, or the like 11, attached to and carried by the said springs and extending upward through the slots above the upper face of the plate or body 1.

7 7 are metal guides arranged parallel to and just outside of the slots 9, and each of these guides has three sides—a top, bottom, and outer side—the inner or adjacent sides being open, as shown in Fig. 1.

8 are the slats, designed to work with their ends in the said guides, the outer sides of the guides preventing endwise displacement of the slats and the upper side preventing displacement vertically.

The operation will be readily understood. The edge of the cloth to be plaited is hooked over the hooks on the back piece or head 2, the follower is drawn away from said head-piece, the slats are placed in their guides, the springs compressed and held by their thumb-screws, and the cloth is placed alternately over and under the slats 8, and when it has thus all been disposed of the follower is forced up against the slats, the springs are released from their compressed condition, and the follower fastened in position. The top edges of the cloth on the slats is then dampened and pressed with a hot smoothing-iron. In about half an hour the plaiting will be completed, and the cloth may be removed from the slats and the operation repeated.

What I claim as new is—

The combination, with the frame having slots 10 10, parallel with each other near opposite sides of the frame, and slots 4 4, parallel with each other and with the slots 10 and arranged between them, and the follower between the slots 10 and guided in the slots 4 4 and provided with means for holding it in its adjusted position, of the guides 7 7, outside and parallel with the slots 10, the spiral springs in the slots 10, and the holders carried by the springs and projecting upward through the slots, all arranged and operating substantially as shown and described.

ELIZABETH E. HOWELL.

Witnesses:

L. M. LANE,
CLARA E. LANE.