M. A. MAYBEE.
Plaiting-Machine.

No. 207,127. Patented Aug. 20, 1878.

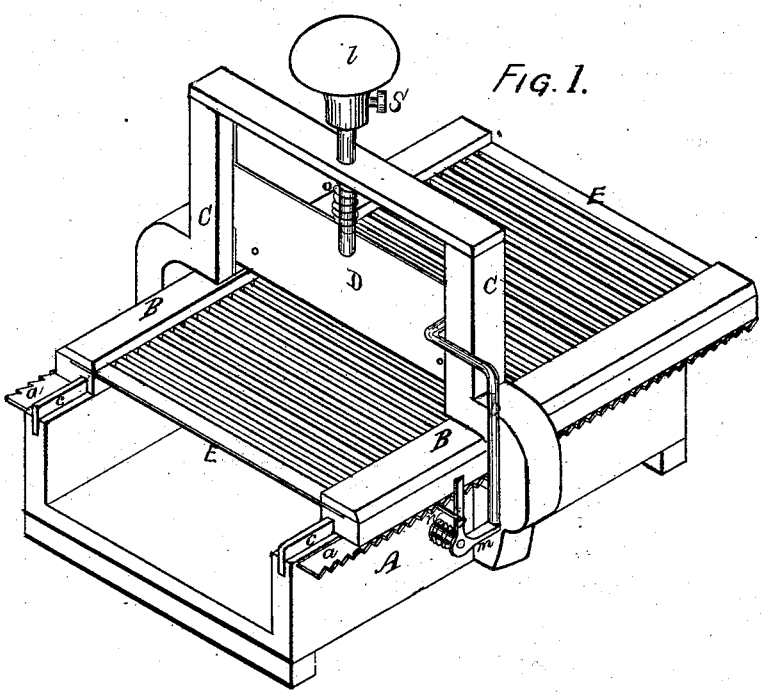

FIG. 1.

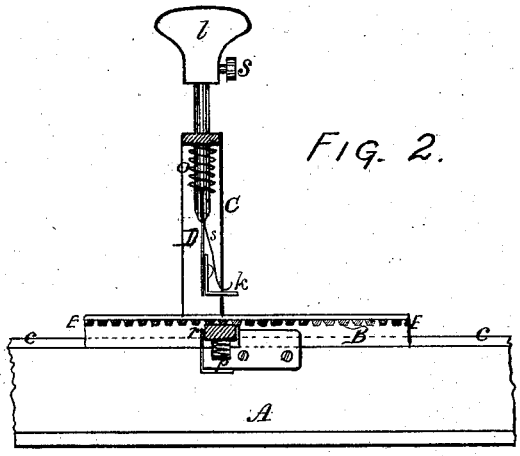

FIG. 2.

WITNESSES.

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M. ADDIE MAYBEE, OF SYRACUSE, NEW YORK, ASSIGNOR OF ONE-HALF HER RIGHT TO WILLIAM DUFFUS, OF SAME PLACE.

IMPROVEMENT IN PLAITING-MACHINES.

Specification forming part of Letters Patent No. **207,127**, dated August 20, 1878; application filed September 13, 1877.

To all whom it may concern:

Be it known that I, M. ADDIE MAYBEE, of Syracuse, county of Onondaga, and State of New York, have invented a certain new and useful Improvement in Machines for Making Plaits, combining therewith an ironer; and I declare the following to be a full and complete description of the same, so as to enable any person skilled in the art to which it appertains to make and use the same.

In the accompanying drawing, forming a part of this specification, like letters indicating corresponding parts, Figure 1 is a perspective view of the machine for plaiting, in which the ironer is covered from sight by the bed-piece resting on the movable carriage. Fig. 2 is a sectional view, in which the ironer is shown resting on springs.

The object of my invention is to furnish a machine which shall both fold cloth into even plaits and iron or press the same, ready for use, in a simple manner and with great rapidity.

In the drawing, the letter A represents the ways, two uprights resting on a horizontal board, and the latter resting on two strips or cleats, one at each end. B B represent the carriage; C C, the upright guides, fastened to the sides of the ways. D is the knife, held between the upright guides C C; E E, the grate or bed-piece, consisting of bars of brass or steel, equidistant, the ends of which are firmly secured to the frame of the carriage; *d d*, the ratchet, fastened to the outer sides of the carriage, and forming, with the sides of the ways A, a guide. *c c* are the horizontal guides proper for the carriage; K, the weight attached to and movable upon the back of the knife D, as shown in Fig. 2; L, the knob attached to the knife; *b*, a bent rod attached to the knife, its foot resting upon and operating the cam-lever *m*. The cam-lever *m* rests upon an iron rod attached to the ways A, and is kept in a perpendicular position by a stop-pin. *n* is the lever-spring, a spiral around the rod upon which the lever rests, fastened to it, and connected with the perpendicular arm of the lever, to throw it back into a perpendicular position as the pressure of the foot *b* is removed. O is the spiral knife-spring, attached to the knife and to the cross-bar resting upon the uprights C C. P represents the ironer-springs, one at each end, and resting upon a shoulder fastened to the inside of the ways A. *r* is the ironer, placed underneath the bed-piece E E. S is the weight-spring, attached to the center of the rod connecting the knob L with the knife D, movable at either end.

It will be seen from the foregoing that when the cloth is placed upon the bed-piece, one end directly under the knife, and the hand is placed upon the knob and pressed down, the spiral spring O elongates, and as the knife passes down between the bars of the bed-piece, a fold or plait is made in the cloth; and it will further appear that as the knife works down, the foot *b* being attached to the knife and resting on the end of the lever *m*, the upright end of which lever engages with the ratchet A A, the carriage B B is moved a distance corresponding with the width of the foot B, which corresponds with the width of the bars in the bed-piece; and it further appears, as the folds or plaits are made in the bed-piece, the weight K, movable upon the knife D, rests upon the fold or plait already formed, and is not disturbed as the knife forms the new fold or plait; and it will further appear that the ironer, while it irons the folds as they are made, when of the proper temperature, also holds the folds or plaits from underneath, thus answering the purpose of a weight as well as an ironer.

In order to regulate or vary the width of the plait, I provide an adjustable device, which consists of the knob sliding up or down on the stem or shank of the knife, retained at any point of its length by a set-screw. The cross-bar secured on the upright guides, and through which the stem or shank of the knife passes, forms a stop, which regulates the width as desired, thus forming an effective device for the purpose.

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

1. The movable bed-piece E E, provided with a slotted frame or grate, and the knife D, having a bent rod, *b*, its foot resting upon and operating the cam-lever *m*, in combination with

each other and the cam-lever *m*, substantially as shown, and for the purposes specified.

2. In a plaiting-machine, the movable carriage E E, provided with permanently-fixed needles or a grate, and having ratchets upon its sides, and the plaiting-knife D, in combination with each other and the ironer K, substantially as shown and specified.

3. In a plaiting-machine, a grated frame or carriage, E E, provided with a ratchet on its sides, and constructed and arranged to move under the plaiting-knife, operated by a cam-lever and bent rod attached to the knife D, as shown and specified.

M. ADDIE MAYBEE.

In presence of—
GEORGE W. HEY,
WM. DUFFUS.