

R. B. NORMENT, Jr.
PLAITING-MACHINE.

No. 179,337.

Patented June 27, 1876.

Fig. 1.

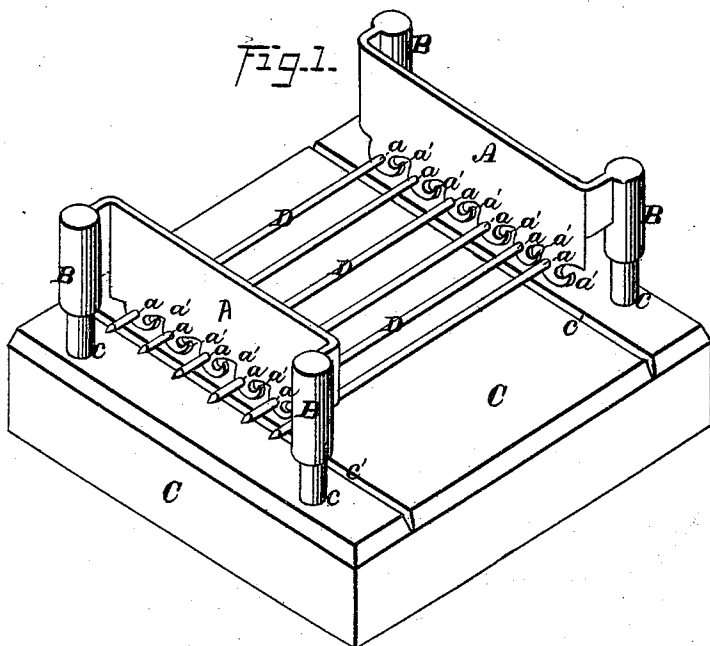
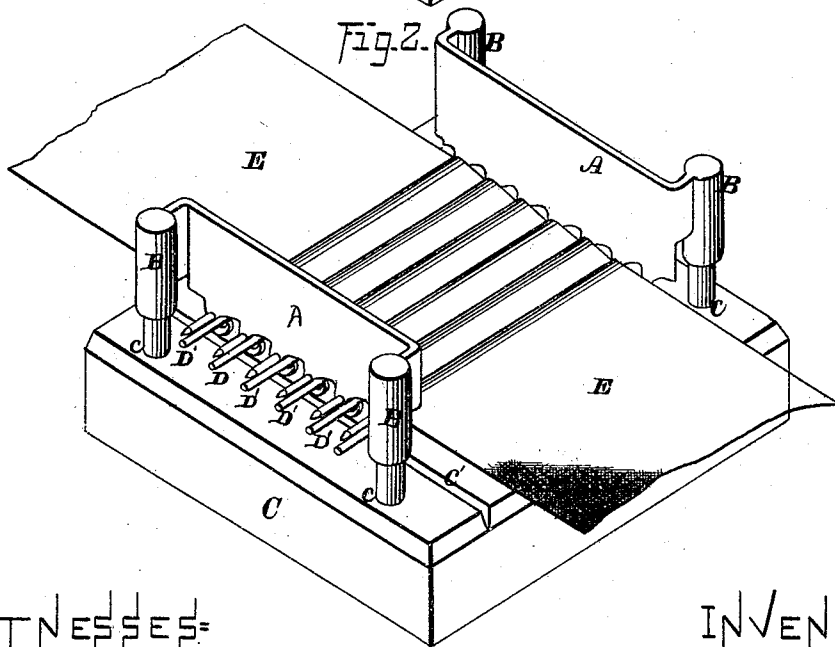


Fig. 2.



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Fig. 3.

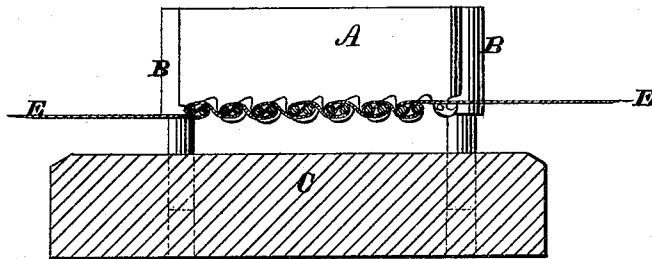


Fig. 4.

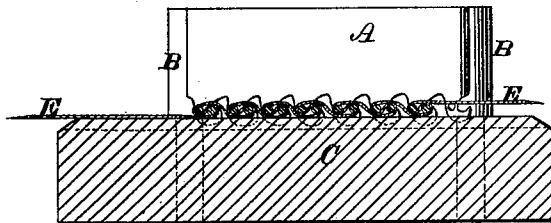
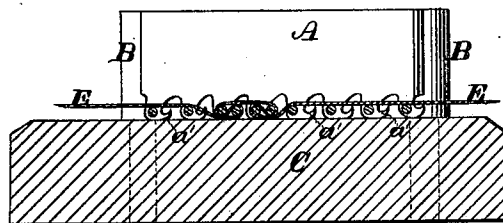


Fig. 5.



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UNITED STATES PATENT OFFICE.

RICHARD B. NORMENT, JR., OF WESTMINSTER, MARYLAND.

IMPROVEMENT IN PLAITING-MACHINES.

Specification forming part of Letters Patent No. **179,337**, dated June 27, 1876; application filed June 7, 1876.

To all whom it may concern:

Be it known that I, RICHARD B. NORMENT, Jr., of Westminster, in the county of Carroll and in the State of Maryland, have invented certain new and useful Improvements in Plaiting-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my improved device as arranged for use. Fig. 2 is a like view of the same with the cloth inserted. Figs. 3 and 4 are longitudinal sections of said device, and show, respectively, the crimping mechanism in the elevated position necessary for the reception of the cloth, and depressed so as to permit said cloth to be operated upon by means of a sad-iron; and Fig. 5 is a like view of the same, with the cloth arranged for a box-plait.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to increase the ease and efficiency of mechanism for forming plaits upon textile fabrics; and it consists, principally, in the peculiar construction of the frame-bars employed for receiving and containing the plaiting-rods, substantially as and for the purpose hereinafter specified. It consists, further, in the construction of the rod-frame, and its combination with the base, by means of which said frame may be raised for the insertion of the fabric to be plaited, and depressed to permit said fabric to be pressed, substantially as is hereinafter shown.

In the annexed drawing, A represents one of a pair of metal bars, which has, preferably, a width of about one inch, and a thickness of one-sixteenth of an inch, is arranged with its greatest transverse dimensions in a vertical plane, and has its ends turned outward at a right angle to its length, and each secured within a vertical metal post, B, which posts extend below said plates, and have their lower portions contained within corresponding openings *c* and *c*, that are formed in a base-board, C. The bars A and A are arranged in parallel lines near opposite sides of the base C, and within the lower edges of

each are formed a number of transverse openings, *a*, that are round, and are placed at equidistant points, and each receives one end of a rod, D, that has its opposite end contained within the correspondingly-located opening *a* of the opposite bar. Midway between the openings *a* and *a* of each bar A is formed a hook, *a'*, that is intended for the reception of a rod, D', which rod has the same transverse dimensions as, but is somewhat longer than, the rods D, and may be placed in position by being passed beneath said bars, and then raised vertically above the points of said hooks, and then moved laterally into the latter, and, when thus in position, said rods D' occupy the same plane as said rods D. The bars A and posts B form the frame for the plaiting-rods, and said posts are so fitted within the base C as to be easily raised to the position shown in Figs. 1, 2, and 3, or depressed to the position shown by Figs. 4 and 5.

In order that when the rod-frame is depressed the rods D and D' may bear upon the upper surface of the base C a groove, *c'*, which corresponds to the dimensions of the lower edge of each plate A, is formed within said base directly beneath said plate, and when the latter is moved downward to its lowest position said groove receives and contains all of the same which is below said rods.

The device is now complete, and is used as follows: The frame being raised, the stationary rods D are placed in position, the cloth E placed upon their upper sides, and one of the rods D' then passed over said cloth between each pair of said stationary rods, and from thence moved downward beneath the bars A and A to the contiguous hooks *a'*, within which it is deposited, said cloth being caused to assume the form shown in Figs. 2, 3, and 4, and lie in folds or plaits. The frame is now depressed until said rods and cloth rest upon the base C, after which a hot iron is passed over said cloth for the purpose of fixing the plaits.

When it is desired to produce box-plaits alternate movable rods D' are carried in relatively opposite directions, or toward each other, as seen in Fig. 5, so as to fold the cloth inward at each end of the plait.

Having thus fully set forth the nature and

*
merits of my invention, what I claim as new is—

1. In combination with the rods D and D', the bars A and A, provided within their lower edges with alternate openings *a* and hooks *a'*, substantially as and for the purpose specified.

2. The frame-bars A and A, secured within the posts B and B, in combination with the base C, provided with the openings *c* for the reception of the lower ends of said posts, and

with grooves *c'* for the reception of the lower edges of said bars, substantially as and for the purpose shown.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of June, 1876.

R. B. NORMENT, JR.

Witnesses:

GEO. S. PRINDLE,
WILLIAM FITCH.