J. THOMAS.

Braiding Attachment for Sewing Machines.

No. 63,117. Patented March 19, 1867.

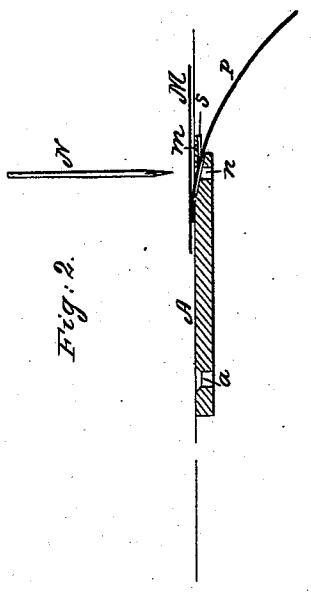

Fig. 2.

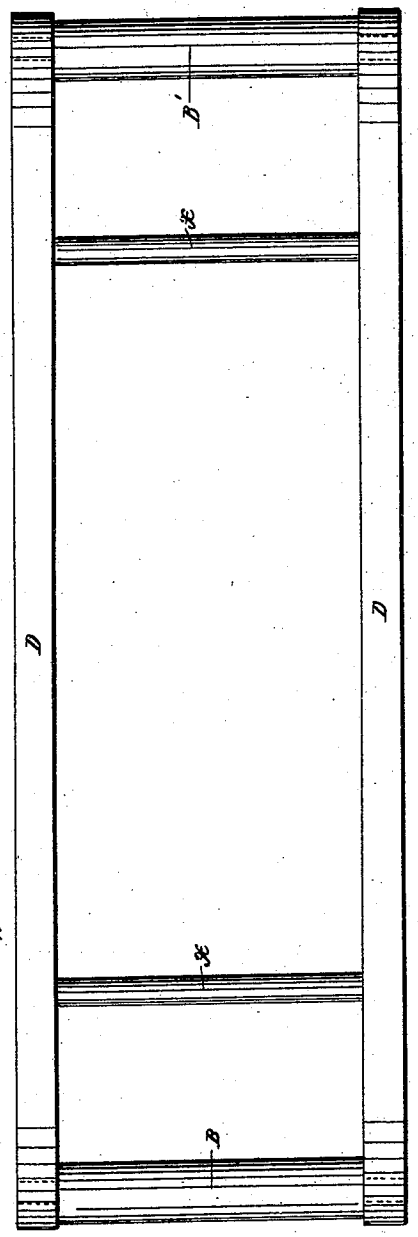

Fig. 3.

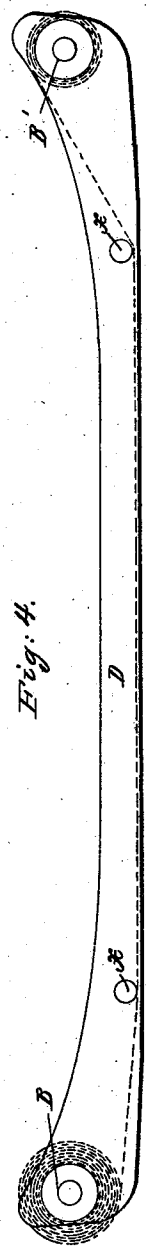

Fig. 4.

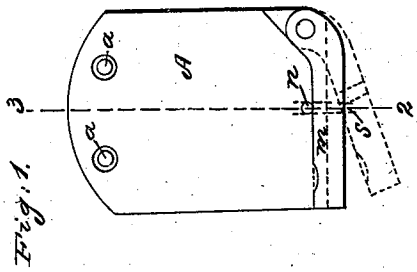

Fig. 1.

Witnesses.

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JOSEPH THOMAS, OF NEW YORK, N. Y.

IMPROVEMENT IN BRAIDING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **63,117**, dated March 19, 1867.

To all whom it may concern:

Be it known that I, JOSEPH THOMAS, of New York, in the county and State of New York, have invented certain new and useful Improvements in Sewing-Machines for sewing braid on cloth or muslin, &c., which I call a "braiding-plate;" and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure I represents a top view of my improved braiding-plate. Fig. II is a cross-section of the same at line 2 3, Fig. I. Fig. III is a top view; and Fig. IV a side elevation of the work-frame.

The nature of my invention consists in the construction and arrangement of a plate, situated directly under the needle of the sewing-machine, through which the braid is passed from the under side and conducted directly under the needle; and, further, in the arrangement of a frame, free to slide on the bed-plate of a sewing-machine, upon which the work on which the braid is to be sewed is fastened or stretched on rollers, or their equivalent, in such a manner that the cloth or muslin can be moved from one side of the frame to the other side while the work of sewing on the braid is progressing.

A represents the braiding-plate fastened at *a a* to the table of the sewing-machine. Near its forward end a hole, *n*, is arranged for the needle of the sewing-machine to pass through in the usual manner. Forward of the needle-hole *n*, and as close to the same as possible, a small plate, *m*, is hinged at one end to the plate A, forming a part of this plate A, and the top of which forms, with the top of the plate A, a straight and smooth surface.

By the arrangement of this plate *m*, capable of opening and shutting, the passing in of the braid is much facilitated; but instead of this hinged plate *m* a suitable groove only may be made, crossing diagonally the needle-hole *n*. On the under side of this plate *m*, and in line with the needle-hole, *n*, a small groove, *s*, is cut sufficiently large to receive the braid, and at the same time to guide the same in its passage to the needle-hole *n*. This groove is continued diagonally on the plate A, past the needle-hole *n*, and chamfered or beveled off toward the surface of the plate A as well as toward its edge.

It will be perceived that by this arrangement the braid is conducted under the material to which the same is to be sewed, as represented in Fig. II, where P represents the braid, M the material on which the braid is to be sewed, and N the needle of the sewing machine.

The pattern or figure stamped on the upper side of the material can, therefore, be more easily followed, and moved with greater facility directly under the needle, as in this case the braid does not cover the pattern, which is the case in all other braiding arrangements hitherto made.

The material to which the braid is to be sewed is attached or stretched on a frame, D, so as to be moved easily in any direction while the machine is in operation. This frame D is provided on one end with a roller, B, working freely between the frame D, and upon which the material is wound, passing then under guide-bars *x x*, and is wound upon a similar roller, B′, at the other end of this frame D, capable of being stretched between these rollers B and B′, and easily rolled from one upon the other roller, while the frame with the material is moved in any desired direction under the needle.

Instead of rollers at each end of the frame any other attachment or fastening, such as pins or points, may be made at the ends of the frame for the purpose of fastening and stretching the material upon the same, and so arranged as to enable the material to be easily moved from one side to the other as the work progresses, and while the frame is being moved under the needle.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The arrangement of the plate *m*, forming part of the braiding-plate A, and capable of opening and shutting to facilitate the passing in of the braid, and provided with a groove, *s*, on its under side to guide the braid, the whole being constructed in the manner and for the purpose set forth.

2. The arrangement and use of the frame D, with rollers B and B′, or their equivalent, at the ends, and the manner of stretching the material upon the same for the purpose substantially as described and set forth.

JOSEPH THOMAS.

Witnesses:

HENRY E. ROEDER,

EDR. KESSELS.