E. T. THOMAS.

Braid-Guide for Sewing-Machines.

No. 207,692. Patented Sept. 3, 1878.

Fig:1.

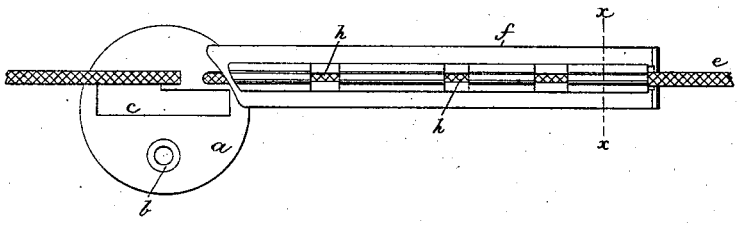



Fig:2.

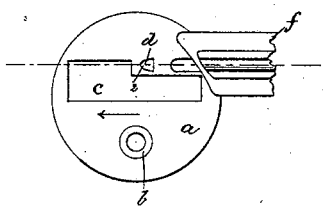
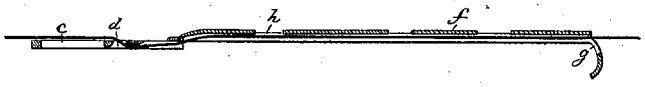



Fig:3.


Fig:4.




Witnesses.

N. S. Whitney.

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Inventor.

Eddy T. Thomas

by Crosby & Gregory Attys.

# UNITED STATES PATENT OFFICE.

EDDY T. THOMAS, OF NEW YORK, N. Y., ASSIGNOR TO GOLD MEDAL SEWING MACHINE COMPANY, OF ORANGE, MASS.

## IMPROVEMENT IN BRAID-GUIDES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **207,692**, dated September 3, 1878; application filed July 20, 1878.

*To all whom it may concern:*

Be it known that I, EDDY T. THOMAS, of the city, county, and State of New York, have invented an Improvement in Braid-Guides for Sewing-Machines, of which the following description, in connection with the drawing forming part thereof, is a specification.

This invention relates to improvements in that class of braiding-guides for sewing-machines in which is used a laterally-extended grooved arm for leading the braid to a needle-hole of round or ordinary form; and the invention consists in a throat-plate provided with a V-shaped needle hole or passage, the small end of the said passage pointing in the direction toward which the material being braided is being moved.

The needle-hole, shaped as described, adapts it to receive and direct in a straight line braids of different widths, retaining each width so that its center is maintained centrally with relation to the center of the needle-hole for the passage of the needle.

Figure 1 represents, in plan view, a braiding-guide and throat-plate constructed in accordance with my invention, the braid being in place. Fig. 2 is a top view of the same, the braid being removed and the guiding-arm broken off; Fig. 3, a section on the line *x x*, Fig. 1; and Fig. 4, a longitudinal section.

The throat-plate *a* is adapted to be held in place upon the sewing-machine by a screw in the opening *b*, and is provided with a feeding-slot, *c*, and with a needle hole or passage, *d*, made V-shaped, as shown clearly in Fig. 2, to guide the braid to be stitched upon a fabric.

The small end, 2, of this opening or passage *d* points in the direction of the forward movement of the feeding device, as denoted by the arrow.

The edges of the braid *e*, bearing against the inclined sides of the passage *d*, cause the braid, whatever may be its width, to be so guided and directed that the center of the braid will occupy a position exactly at the center of the passage *d*, so that the needle, in its descent through the said passage, will penetrate the said braid at its center.

The guiding-arm *f*, connected with and projecting laterally from the throat-plate, and extending over the cloth-plate, (not shown,) is provided with a groove, *g*, through which and underneath the fabric is led the braid on its way to the passage *d*. The braid, after issuing from the groove *g*, is directed upward through the passage *d* in contact with the cloth.

The slots *h* permit of the introduction into the groove *g* of a pointed instrument to lead the end of the braid along said groove to the passage *d*.

I claim—

1. The improved braiding-guide or throat-plate, provided with a V-shaped passage, *d*, for the braid and the needle, the smaller contracted end of the V-shaped passage being made to point in the direction of the forward movement of the feed, to guide and centralize braids of different widths, substantially as described.

2. The throat-plate provided with the feed-opening and the V-shaped braid and needle-passage *d*, combined with the connected and laterally-extended arm *f*, to operate substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDDY T. THOMAS.

Witnesses:

ALLEN P. CREQUE,

SPENCER C. DOTY.