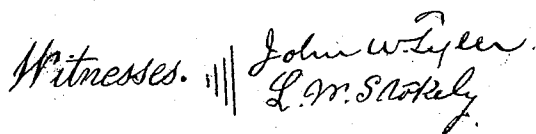


Improvement in Cording Attachments for Sewing-Machines.
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UNITED STATES PATENT OFFICE.

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OHIO, ASSIGNORS OF ONE-THIRD INTEREST TO LOUIS FREITAG.

IMPROVEMENT IN CORDING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 115,048, dated May 23, 1871; antedated May 9, 1871.

We, WILLIAM HENRY FOWLER and WILLIAM PETTINGELL, both of Painesville, in the county of Lake and State of Ohio, have invented certain Improvements in Automatic Cording Attachments for Sewing-Machines, of which the following is a specification:

Our invention relates to the form and combination of the cord-guide H with the presser-foot F and gage G. Said cord-guide is attached to the rod which carries the presser-foot by the clip *a*, and is secured firmly by a set-screw. By attaching all these parts to the presser-foot they all rise together when the feed rises. The cord is passed between the two plates *m* and *n*; then to the front edge, where it lies in the groove *j* formed by the two plates. In Fig. III, at *k*, is shown by the dotted lines the position of the cord as it passes on its course from the spool to its position on entering the goods; and the point *l* of the guide is placed close to and between the cloth, where it is folded, guiding the cord exactly in a line with the inside edge of the fold in the cloth, and by running the cord in the groove *j* it prevents the cloth from rubbing on or bearing on the cord, allowing a free delivery of the cord to its position in the goods. This whole attachment is self-guiding or automatic, allowing, in the event of its use in a manufactory where the machines can be run by power, the attendance of several machines by one operator.

Description of the Accompanying Drawing.

Figure I is a perspective view of the attachment, showing the position of the gage and cord-guide on the sewing-machine; Fig. II, plan view of gage G, slotted slide, *d*, and cloth-clips *h* and *i*; Fig. III, view of presser-foot F; Fig. IIII, plan view of all parts, and showing the position of the cord E.

General Description.

As shown in Fig. I, A is the table of a sewing-machine, which is kept entirely clear. No attachment of gage or cord-guide is needed. The letters F G *c d e f h i* are parts of our

automatic cording attachment. F is the presser-foot, which is attached to the rod which carries the usual presser-foot of any sewing-machine. *c c c* are slide cheeks or guides to take the adjustable slide *d*. Said slide has secured to its end the gage G. *f* is a slot in slide to allow the adjustment of the slide back and forth, and is secured in place by the set-screw *e*. All the parts are shown in Fig. IIII. The under side of the slide bears on the goods, keeping it level, and the gage G is adjusted outward the necessary distance, from time to time, as the width taken up by the cord requires. The cord-guide H is attached to the same rod as the presser-foot, and secured to it by a set-screw.

The guide H is composed of the two plates *m* and *n*, which allow the cord to pass between them, and the plates form a groove, *j*, at the front to receive the cord, thus keeping it from the goods, and preventing any bearing on it or friction, giving it a clear delivery through the length of the guide; and at the end *l*, which is placed between the goods, it is rounded, and the two plates are slightly closed together, and the end *l* is placed close to the inside of the fold and close to the inside of the gage G, thus delivering the cord in a direct line with the gage G. In Fig. IIII is shown by the dotted line the course of the cord E.

When it is necessary to turn the goods from under the needle to adjust the shuttle it can be done without removing the work from the gage.

What we claim as our invention, and desire to secure by Letters Patent, is—

The cord-guide H, with its groove *j* and rounded end *l*, in combination with the gage G, slotted slide *d*, clips *h* and *i*, and presser-foot F, substantially as and for the purpose hereinbefore set forth.

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Witnesses:

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