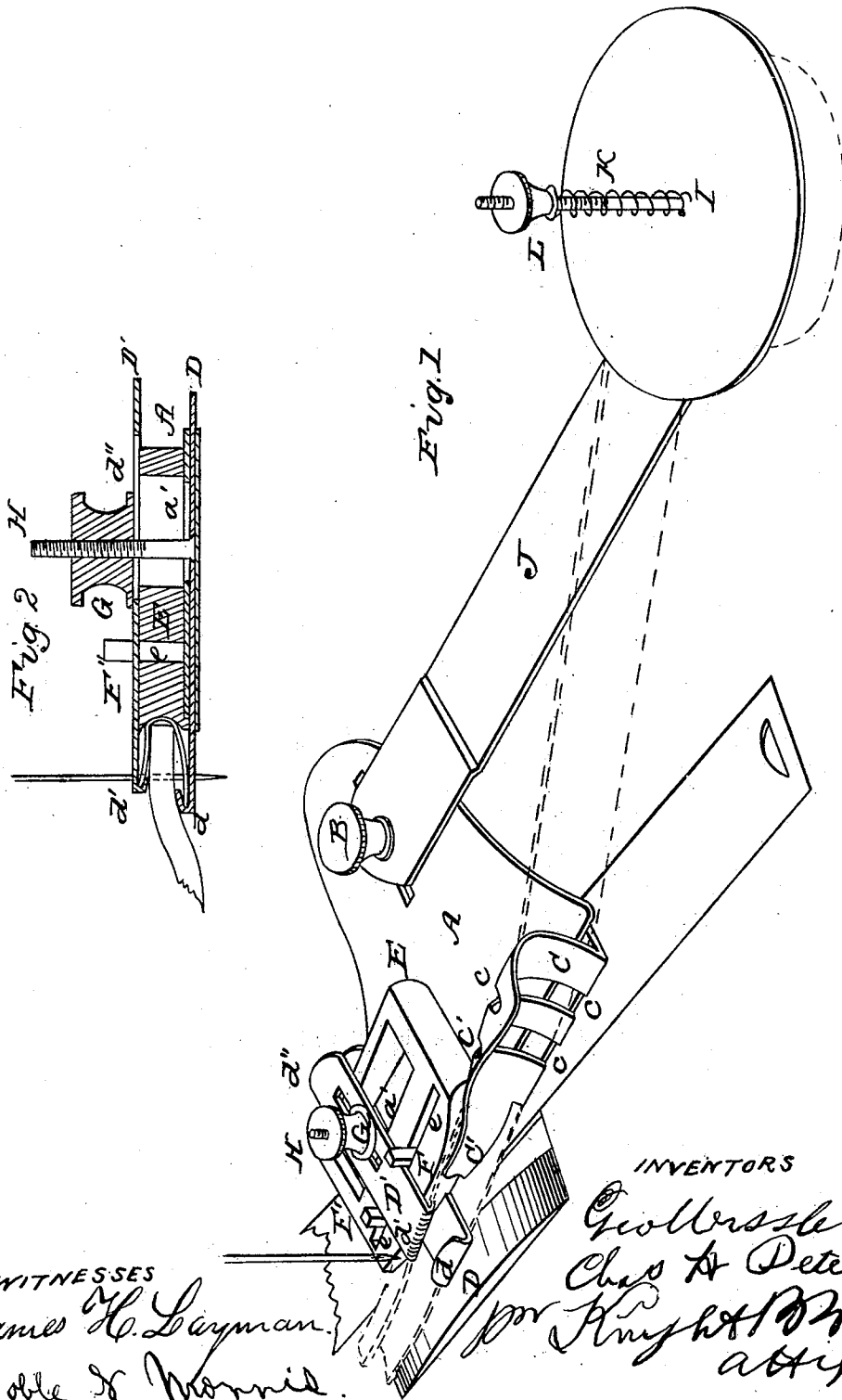


WISSLER & PETERS.

Binder Attachment for Sewing Machines.

No. 42,615.

Patented May 3, 1864.



WITNESSES
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UNITED STATES PATENT OFFICE.

GEO. WISSLER AND CHAS. H. PETERS, OF CINCINNATI, OHIO.

IMPROVEMENT IN BINDER ATTACHMENT FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **42,615**, dated May 3, 1864.

To all whom it may concern:

Be it known that we, GEORG WISSLER and CHARLES H. PETERS, both of Cincinnati, Hamilton county, Ohio, have invented a new and useful Binding Attachment to Sewing-Machines; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Our invention relates to the provision of a binder for use with a sewing-machine, said binder being adapted to work with greater facility and efficiency than those heretofore employed, and capable of adaptation to various thicknesses and kinds of goods and widths of tape.

Figure 1 represents in position a binder embodying our invention. Fig. 2 is a transverse section, showing the action of our binder on the stuff.

A is a bracket or base-plate, attached to the cloth-plate of the machine by means of a screw, B. Projecting upward from the front edge of the said bracket, and curved somewhat outward, so as to present a convex surface toward the bracket, is a flange, C, whose end toward the needle takes the form of a tongue, C'. The screw B, traversing a slot, *a*, in the bracket A, enables the binder to be firmly secured to any position on the cloth-plate of the sewing-machine. Slots *c c'* in flange C afford guide-apertures to the tape on its way to the edge-turners and guides D D', consisting of two small flat bars, with hooks *d d'* at their front ends, and attached, one of them, D, below the bracket, and the other on the top of a wedge-formed block, E. The wedge E is tapered in the direction of the stitching, and is capable of adjustment in a path parallel to said direction, being guided thereto by studs F F', which rise from the bracket A through a slot, *e*, in the wedge E. A slot, *d''*, in the upper edge-turner, and a similar slot, *a'*, in the bracket, enable each edge-turner D or D' to be set independently more or less forward. For example, by

setting the lower one, D, somewhat in advance of the upper one, D', the unseen edge of the binding-tape can be caused to somewhat outreach the upper or visible edge, so as to secure against misstitches.

It will be perceived that one effect of the wedge E is to cause the edge-turners D D' to gape on the side that the tape and cloth enter. The adjustments having been made, the wedge E and edge-turners D D' are secured in place by means of a screw, H, and nut G.

I is the tape-reel or holder, secured to the cloth-plate by means of a bracket, J, and the screw B. A spiral spring, K, whose stress is adjustable by means of a nut, L, enables a proper tension to be given to the tape. The working-edge of the wedge E immediately behind the tape being concaved in its vertical section, and the opposing surface of the tongue C being made convex, a proper direction is given to the desired transverse flexure of the tape preparatory to entering the edge-turners D D'. It is preferred that the said working-edge of the wedge E should present a convex horizontal contour, so as to avoid catching the work, and so as to enable it to be carried into receding angles.

We claim herein as new and of our invention—

1. The combination of the convex-slotted tape-guide C C', the convex-faced tapering block E, and adjustable edge-turners D D', all constructed and operating substantially as and for the purposes described.

2. The described combination, with the parts A B C D D' E, of the reel or tape-holder I J K L, substantially as set forth.

In testimony of which invention we hereunto set our hands.

GEORG WISSLER.
CHARLES H. PETERS.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.