A. WARTH.

Implements for Notching Patterns for Garments.

No. 169,066. Patented Oct. 19, 1875.

Fig. 1.

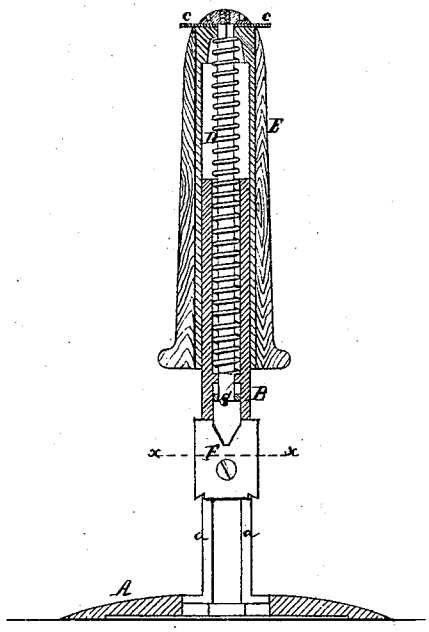
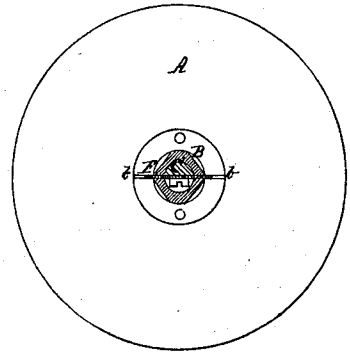


Fig. 2.



Witnesses.
Otto Hufeland.
Chas. Wahlers.

Inventor.
Albin Warth
per
Van Santvoord & Hauff
attys

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D C.

UNITED STATES PATENT OFFICE.

ALBIN WARTH, OF STAPLETON, NEW YORK.

IMPROVEMENT IN IMPLEMENTS FOR NOTCHING PATTERNS FOR GARMENTS.

Specification forming part of Letters Patent No. **169,066**, dated October 19, 1875; application filed September 15, 1875.

To all whom it may concern:

Be it known that I, ALBIN WARTH, of Stapleton, in the county of Richmond and State of New York, have invented a new and Improved Implement for Notching Patterns of Garments, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a vertical central section. Fig. 2 is a horizontal section in the plane *x x*, Fig. 1.

Similar letters indicate corresponding parts.

This invention consists in the combination of a foot-plate with a hollow slotted standard, in the interior of which is fitted a plunger, which is subjected to the action of a spring, and which carries a knife that projects through and is guided in the slotted standard in such a manner that, if the foot-plate is brought beneath a pile of patterns until the edge of said pile bears against the standard, and then the plunger is depressed, the required notches are produced in all the patterns composing the pile. The plunger is provided with an index, whereby the operation of adjusting the pile of patterns in the proper relation toward the cutting-edge of the knife is facilitated. The standard has two slots, one opposite the other, and the knife projects through both slots, so that the notching implement can be applied to both edges of a pile of patterns without turning either the pile or the implement.

In cutting out the patterns for garments it is customary to place a number of layers of the fabric from which the patterns are to be cut, one on the top of the other, so as to form a pile, on the top layer of which the patterns are drawn, and then the entire pile is cut up. By these means a series of piles of patterns are formed, each of which has to be notched at different places.

The implement which forms the subject-matter of this present invention is intended to facilitate the operation of notching.

In the drawing, the letter A designates the foot-plate of my implement, which is, by preference, made circular, with a flat bottom and a convex top, its edge being sharp, so that it can readily be pushed beneath the pile of patterns to be operated upon. Said foot-plate may, however, be made in any other convenient form or shape. From the center of said foot-plate rises a standard, B, which is bored out to receive the plunger C, and also a spring, D, that serves to force the plunger up. To the upper end of said plunger is secured a handle, E, which serves to depress the same against the action of its spring, said handle being so formed that it extends over the outer surface of the standard B, and assists in keeping the plunger steady. To the bottom end of said plunger is secured a knife, F, which extends through slots *a a* in the standard B, and the cutting-edges of which enter slots *b b* in the bottom flange of said standard when the plunger is depressed. The knife may be constructed with a single cutting-edge projecting through a slot in one side of the standard; but I prefer to make said knife with two cutting-edges, as above stated, for reasons which will be presently explained. On the top of the handle E is secured an index, *c*, which extends in the same direction in which the knife extends, so that it shows the position of the knife even if the latter is concealed to the eye by the handle. The cutting-edges of the knife project beyond the standard for a distance equal to the depth of the notches to be produced.

After the patterns have been cut out I take my implement and introduce its foot-plate successively beneath the piles of patterns, bringing the standard B close up to the edge of the pile; and after the cutting-edge of the knife has been adjusted over the spot where the notches are to be produced, which operation is facilitated by the index *c*, I depress the plunger, and the entire pile of patterns is notched by one operation. I then allow the plunger to rise, withdraw the foot-plate from under that side of the pile which has been notched, and introduce it beneath the opposite side of the pile, where the same is again notched in the same manner as above described.

The operation of producing the second notches can be performed with my implement without disturbing the pile of patterns, and also without turning the notching implement in the hand, so that the entire process of notching can be effected with little trouble or loss of time.

My notching-instrument can be used for sin-

gle patterns, or for piles of greater or less thickness; but it is particularly intended for notching piles of patterns of one inch or more in thickness, such as I cut out with my machines for cutting textile fabrics.

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

1. The combination of the foot-plate, supporting a hollow slotted standard, with a plunger vertically reciprocating within the standard, provided with a knife projecting beyond and through the slotted standard, all substantially as shown, for the purpose described.

2. The combination of an index with the handle of the plunger that carries the knife, and with the slotted standard and foot-plate, all constructed and operating substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 14th day of September, 1875.

ALBIN WARTH. [L. S.]

Witnesses:
W. HAUFF,
E. F. KASTENHUBER.