

UNITED STATES PATENT OFFICE.

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TRIMMING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 322,326, dated July 14, 1885.

Application filed February 9, 1885. (No model.)

To all whom it may concern:

Be it known that I, GEORG SCHOEN, a citizen of the United States, residing at 154 East One hundred and twelfth street, New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Trimming Attachments for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a front view of part of a sewing-machine having my trimming attachment secured thereto. Fig. 2 is a side view of the attachment, looking in the direction of the arrow 2, Fig. 1. Fig. 3 is a perspective view of the attachment. Fig. 4 is a top view of the plate of the attachment, the cutting-blades being removed. Fig. 5 is a front view of the attachment, the screw or pin connecting it with the needle-bar differing somewhat from that shown in Fig. 1.

Similar letters of reference indicate like parts in all the figures.

In the drawings, A represents the working or bed plate of the machine; B, the standard; C, the head; D, the needle-bar, and E the presser-foot, these parts needing no description in detail, as they may be of any ordinary or preferred construction, the trimming attachment herein described, and which forms the subject of my invention, being applicable to any of the styles of sewing-machines now in common use by very slight changes in the form of the lever carrying the movable blade of the cutter, as will be readily suggested to those skilled in the art.

F is a plate adapted to be attached to the working-plate of the machine by means of a screw, G, passing through a slot, *f*, in the plate F, and into a screw-threaded aperture in the working-plate. This plate carries the cutters, which trim, by a shearing action, the cloth being sewed at a uniform distance from the line of stitches, the stationary cutter or knife being secured directly to the plate, while the movable one is attached to a lever operated by the needle-bar D. The slot *f* in the plate permits the plate to be adjusted toward and from the needle in order to change the distance the cut shall be from the seam. The plate is cut away along its outer edge, as at

F', forming a recess in which lies the plate forming the stationary blade of the cutter. This plate is formed of two parts, H H', the part H, carrying the cutting-edge *h*, being beveled—the thickest portion being along the rear edge—to insure that the movable blade shall pass the blade H H' with a shearing action. The other part, H', projects over and rests upon the plate F, to which it is attached by means of screws I I, passing through slots *h' h'* in the knife-plate into apertures *f' f'* in the plate F. The top of the part H' is in a plane parallel with plate F, so that the heads of the screws I may be drawn down close to the plate to securely hold it from slipping. By loosening screws I the knife may be adjusted to take up wear and insure a close contact between the cutting-blades as one passes the other.

K is a standard or post rising from plate F a little in rear of the stationary knife. It is provided at its upper end with two ears or lugs, *k k*, between which is pivoted the arm L of a lever carrying the movable knife of the cutter. The arm L of this lever is provided with an offset, *l*, in order to bring the part to which the knife M is attached over the cutting portion of knife-plate H H'.

P P are screws by which the knife M is detachably secured to arm L, they passing through slots *l' l'* to permit adjustment of the knife.

L' is an upwardly-projecting arm of the lever and extending at about a right angle to the arm L. It is provided with a slot, N, through which projects a pin or screw, O, carried by the needle-bar.

It will be seen that when the machine is in operation the reciprocation of the needle-bar will cause the lever to rise and fall, and thus operate the cutter, which, being slightly in rear of the needle, trims the united edges of the fabric as soon as they are stitched.

I have shown the screw or pin O as provided with a collar, *o*, fitting loosely thereon and engaging with the walls of the slot N, whereby I reduce friction and wear of parts.

This attachment may be applied to machines of different sizes and constructions by a slight change in the form of lever L L' and without departing from the spirit of my invention.

It will be seen that both the movable and

the stationary knives are detachably secured to their respective supporting parts, which permits their being replaced should they become broken or worn, without at the same time necessitating that either a new lever, L L', or a new plate, F, should be employed, while at the same time the knives are capable of separate adjustment.

What I claim is—

1. In a trimming attachment for a sewing-machine, the combination of a plate, F, a stationary knife attached thereto, a standard, K, a lever pivoted near one end in said standard, and near the opposite end attached to the needle-bar, and a knife detachably secured to said lever, substantially as set forth.

2. In a trimming attachment for a sewing-machine, the combination of a plate, F, a stationary knife attached thereto, a standard, K, a lever pivoted near one end to said standard and attached near the opposite end to the needle, and the knife M, detachably and adjustably secured to the lever, substantially as set forth.

3. In a trimming attachment for a sewing-machine, the combination of a plate, F, a stationary knife attached thereto, a standard or post, K, rising from the plate, a lever pivoted

to said standard or post and consisting of the arm L, having the offset l, and the upwardly-projecting arm L', having the slot N, and the knife M, carried by the arm L of the lever, substantially as set forth.

4. In a trimming attachment for sewing-machines, the combination of the plate F, having a recess, F', along its outer edge, the stationary knife seated in said recess, it consisting of the beveled part H, having the cutting-edge h, and the part H', having its upper face in a plane parallel with plate F, the screws I, and a knife movable toward and from knife H H', substantially as set forth.

5. In a trimming attachment for sewing-machines, the combination, with a sewing-machine, of a stationary knife, a movable knife, a lever carrying the movable knife, a pin or screw carried by the needle-bar and passing through the lever, and a collar, o, surrounding said pin or screw, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORG SCHOEN. [L. s.]

Witnesses:

TIMOTHY J. CREEDEN, [L. s.]
JAMES CRONIN. [L. s.]