

J. E. WILSON.
Trimmer for Sewing-Machines.

No. 202,908.

Patented April 23, 1878.

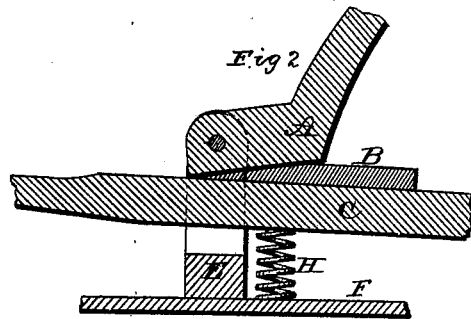
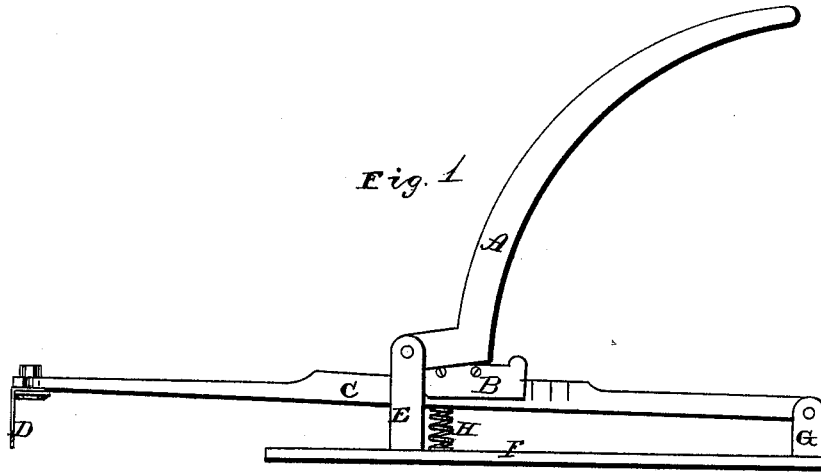
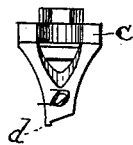


Fig. 3



WITNESSES.

J. W. Garner,
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INVENTOR.

Jas. E. Wilson,
per
J. A. Lehmann, Atty.

UNITED STATES PATENT OFFICE.

JAMES E. WILSON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN TRIMMERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **202,908**, dated April 23, 1878; application filed January 19, 1878.

To all whom it may concern:

Be it known that I, JAMES E. WILSON, of the city of Chicago, county of Cook, and State of Illinois, have invented certain improvements in the attachment to sewing-machines called "Edge-Trimmer," or an attachment to trim the edge of material being sewed, which improvements are fully set forth in the annexed specification and drawings, reference being had to the accompanying drawings, and the letters and figures of reference marked thereon.

Figure 1 is a representation of the edge-trimmer as it is put together ready for use. Fig. 2 is a representation of the adjustable wedge to regulate the stroke of the knife-bar. Fig. 3 is a representation of the knife.

A, in Fig. 1, is a lever that, when the trimmer is in position to use, comes under the needle-bar arm of a sewing-machine, (say, for instance, the Wheeler & Wilson,) and it strikes this needle-bar arm on its under side, and when the needle-bar arm is in motion it strikes the lever A, and makes it move downward. The lever A striking or resting upon the adjustable wedge B, which is adjustable to the knife-bar C, forces the knife-bar downward, so that the knife D trims the edge of the material at the same time it is sewed. E is a slotted post, through which the knife-bar C passes, and is fastened to plate F, to which slotted post the end of the lever A is hinged. G is a post on plate F, to which one end of the knife-bar C is hinged. Plate F is fastened to the sewing-machine bed under the needle-bar arm, so that the lever A shall come under it, and the needle-bar arm when in motion imparts motion to the lever A, so that knife D on the knife-bar C, by the motion of the lever A, moves and trims the edge of the material while it is being sewed. The spring H is placed under the knife-bar C, and rests upon the plate F, and forces the knife-bar upward when the needle-bar arm moves upward. The knife D is attached to the end of the knife-bar

C in such a way as to be adjustable in order to fit closely to the edge of the slot in the needle-plate, into which knife D plays.

The point *d* on the knife D may be made so that it will not come up above the top surface of the needle-plate, which is an advantage in keeping the knife in position in the slot in the needle-plate, and in making short turns while trimming. The knife, owing to its shape, does not cut the stitches that have just been made. The shape of the cutting part of the knife is slanted upward from its back edge to its front edge, so that the cut of the knife may be long or short, according to the extent of the motion of the knife-bar C.

The adjustable wedge B is fitted to the knife-bar C, so as to slide on the bar under the end of lever A, and is held in position by a spring or other ordinary fastening. The cut of the knife D is regulated by the position of the wedge B under the lever A. When the wedge B is withdrawn from under the lever A the motion of the knife-bar C is entirely suspended.

This edge-trimmer may be attached to sewing-machines having either a rock-shaft or rotary shaft for driving the needle-bar by means of a cam or lever on the needle-bar shaft acting on the lever A of this my edge-trimmer attachment to sewing-machines.

What I claim is—

1. A combination of the lever A, knife-bar C, wedge B, plate F, with posts E and G, spring H, and knife D, substantially and for the purposes herein described.

2. A combination of the knife D, spring H, plate F, with posts E and G, and lever A, and knife-bar C, substantially as and for the purposes herein described.

In witness whereof I have signed my name in the presence of two witnesses this 7th day of January, 1878.

JAMES E. WILSON.

Witnesses:

L. O. WILSON,
D. F. FLANERY.