

(No Model.)

2 Sheets—Sheet 1.

W. G. CUMMINS & E. A. MUNRO.
TRIMMING ATTACHMENT FOR SEWING MACHINES.

No. 529,783.

Patented Nov. 27, 1894.

Fig. 1.

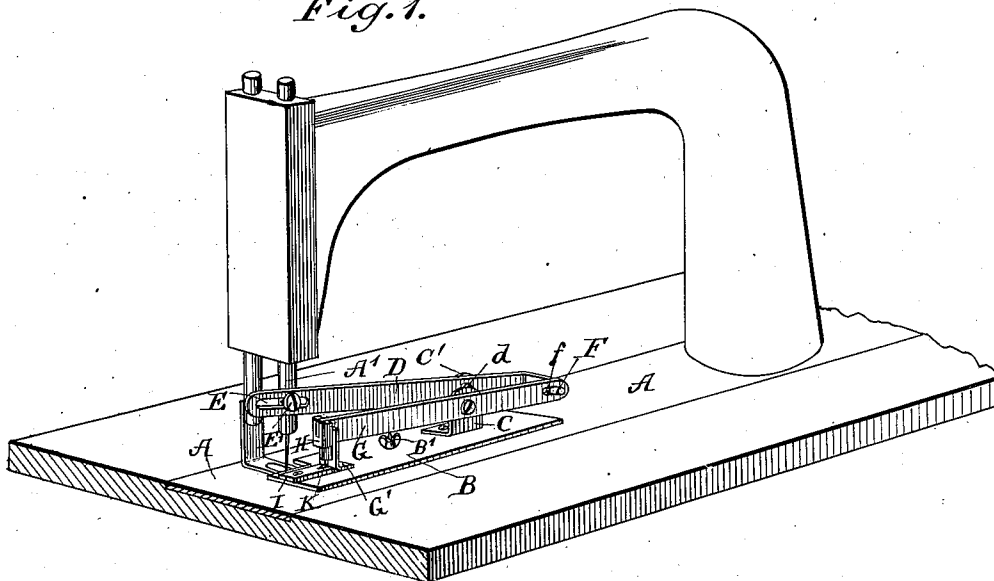


Fig. 2.

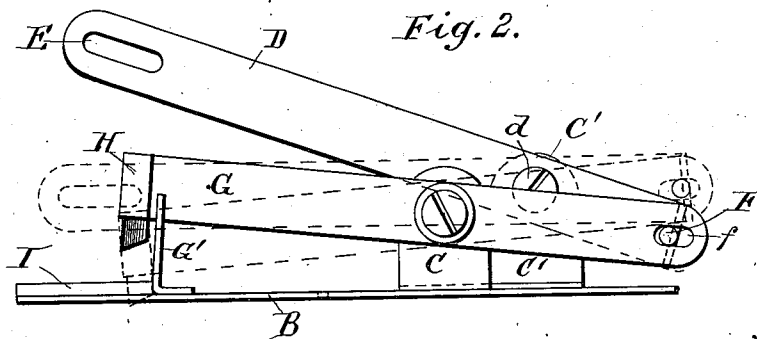
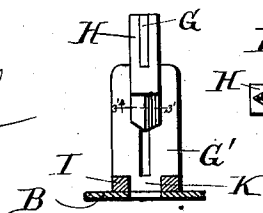


Fig. 3.



WITNESSES
M. W. Twitchell
May E. Moore

Fig. 3'

INVENTORS:
W. G. Cummins
E. A. Munro
By W. J. Moore
Attorney

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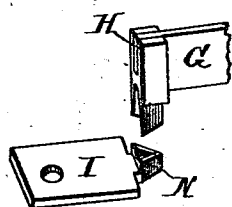
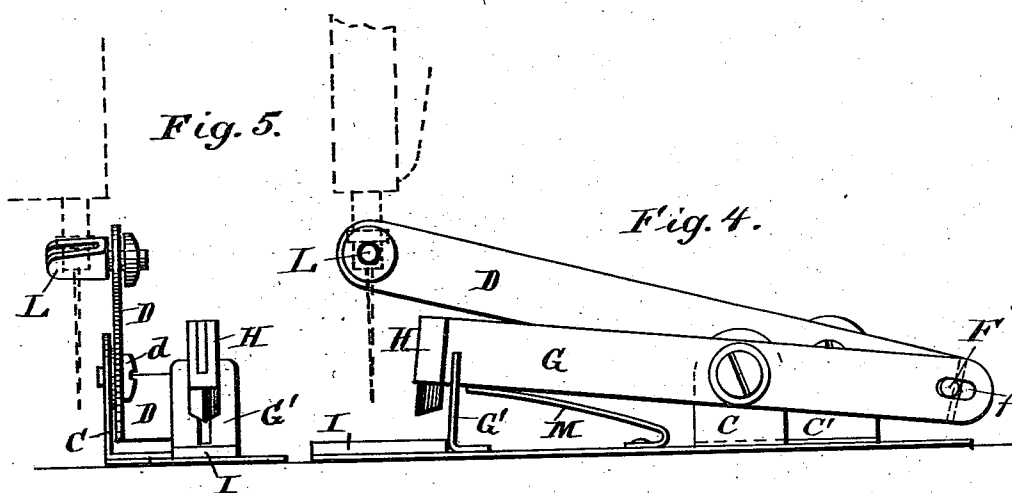
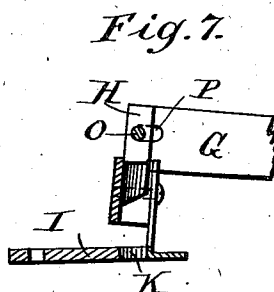


Fig. 6.



William G. Cummins
Emma A. Munro.

WITNESSES
M. W. Twitchell.
Mary E. Moore.

INVENTORS:
By *Wm. J. Moore*
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM G. CUMMINS AND EMMA A. MUNRO, OF McMINNVILLE, TENNESSEE.

TRIMMING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 529,783, dated November 27, 1894.

Application filed January 29, 1894. Serial No. 498,380. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM G. CUMMINS and EMMA A. MUNRO, citizens of the United States, residing at McMinnville, in the county of Warren and State of Tennessee, have invented certain new and useful Improvements in Sewing-Machine Attachments; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to an improved attachment for sewing machines; and the main object of the invention is to provide an attachment which can be easily applied to any machine and by which the edges of material sewed by the machine will be trimmed in such a manner as to prevent raveling thereof.

Another object of the invention is to provide an attachment by which the edges of the material on which the machine is working will be given an ornamental appearance.

Our invention consists in the peculiar construction and arrangement of parts as will be hereinafter more fully pointed out and claimed.

In the accompanying drawings:—Figure 1 is a perspective view of a portion of a sewing machine provided with our improved attachment. Fig. 2 is an elevation of the attachment removed from the machine. Figs. 3 and 3' are detail views of the cutter. Figs. 4 and 5 are elevations showing a slightly modified construction. Fig. 6 is a detail view illustrating another modification. Fig. 7 is a detail view illustrating a modification of the manner of connecting the cutter bar and cutter.

Like letters of reference denote corresponding parts in all of the figures of the drawings, referring to which—

A designates the bed plate, and A' the reciprocating needle bar of a sewing machine, all of which parts may be of any desired size and style as they alone form no part of our present invention.

B designates the bed plate of our improved attachment which may be of any suitable

form and size and said plate is adapted to be rigidly attached to the bed plate, A, of the machine by a thumb screw, B', or other means which will permit of its ready removal at any time.

Two posts or standards, C, C', are rigidly attached to the base plate, B, or formed integral therewith; the post, C', being situated to one side of and in rear of the post, C. The post or standard, C', serves as a fulcrum block for a main operating lever, D, which is connected to said post by a pivot pin, d. In the lever, D, near the forward end thereof is formed a slot, E, adapted to receive a laterally projecting stud or pin, E', on the needle bar, A', and near its other end said lever, D, is bent toward the post or standard C', so as to extend substantially at right angles to the length of the main body of the lever, the outer end of such bent portion being reduced to form a pin, F, which extends through a slot, f, formed near the rear end of a pivoted or rocking cutter bar, G.

The cutter bar, G, is fulcrumed on the post or standard, C, and is connected with the main operating lever, D, in the manner described above. The forward end of the cutter bar extends through a guide piece G', which is shown as consisting simply of an upright provided with a central vertical slot which opens through the upper end of the standard and is of such a width as to permit the cutter bar to move freely therein. To the forward end of the bar, G, is connected the upper cutter of our attachment. This cutter, H, may be made in the form shown in Figs. 3 and 3' in which the stock or body thereof is bifurcated to extend on opposite sides of the cutter bar to which it is suitably connected while the lower cutting portion is made V shaped in cross section the apex or point of connection of the two inclined sides being toward the needle of the machine.

In a suitable block, I, attached to the upper surface of the base, B, of our attachment, in front of the guide, G', is formed a V shaped aperture, K, adapted to receive the cutter, H, and said opening aligns with a similar opening in the plate, B.

The operation of our invention may be briefly stated as follows:—The reciprocation of the needle bar, A', causes the lever, D, to

rock on its pivot and a similar movement is communicated to the cutter, H, through the cutter bar, G. Thus as the material to be sewed by the machine is fed beneath the needle the edge or edges of the seam are regularly notched by the cutter, H, and prevented from raveling. The guide, G', besides serving as a guide to the cutter bar also serves as a guide for material being sewed and insures the seam or line of stitching being parallel with the edges of the material.

In Figs. 4 and 5 of the drawings we have illustrated a modified form of our invention showing the same adapted to be operated from the needle bar of a machine when it is not practical to provide such bar with a pin or stud as shown in Fig. 1. In this construction the lever, D, and cutter bar are connected in the manner hereinbefore described; but instead of forming a slot in the lever, D, to receive a pin or stud on the needle bar we provide such lever with a laterally projecting fork shaped piece, L, which is adapted to extend on opposite sides of the needle bar just below the needle clamp or holder thereon. The fork, L, is preferably connected to the lever, D, by a swivel joint. To the base, B, in rear of the cutter bar guide we attach one end of a flat or leaf spring, M, the other end of which spring bears against the under side of the cutter bar, G, and operates to return said bar and its attached cutter as well as the forward end of the lever, D, to its normal elevated position as the needle bar moves upwardly.

In Fig. 6 we have illustrated a slight modification of the cutting mechanism. In this construction the upper cutter is made in substantially the form before described except that it is reversely arranged; that is the apex of the angular cutting portion thereof is adjacent to the cutter bar guide instead of toward the needle. The lower cutter, however, in this construction consists of a raised portion, N, adapted to fit within the lower end of

the upper cutter as the same is forced down against the base, B, and the upper surface of such raised portion, N, is partially removed to provide two cutting edges. In this construction the pieces cut from the material, being sewed, by the cutting mechanism will fall upon the base, B, instead of passing through an opening therein.

Instead of connecting the upper cutter rigidly with the rocking cutter bar as hereinbefore described and illustrated, said cutter may be fitted snugly within a guide sleeve or box carried by the standard, G', and be detachably connected with the cutter bar by a pin, O, extending through a slot, P, formed in said bar. This construction enables the cutter to be easily detached from the cutter bar for the purpose of being sharpened or replaced by a new cutter. It will thus be seen that we have provided a very simple attachment which can be easily applied to any machine and which will prevent the edges of seams from raveling while at the same time giving them an ornamental appearance.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

An attachment for sewing machines comprising a base, a cutter block attached thereto, a cutter bar fulcrumed on said base and adapted to cooperate with said cutter block, a lever fulcrumed to said base and extending parallel to said cutter bar and connected thereto at its extremity by a pin and slot connection, the other extremity of said lever being suitably connected with the needle bar so as to be operated thereby and thus operate the cutter bar, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM G. CUMMINS.
EMMA A. MUNRO.

Witnesses:

WILL THURMAN,
JAS. MUNRO.