

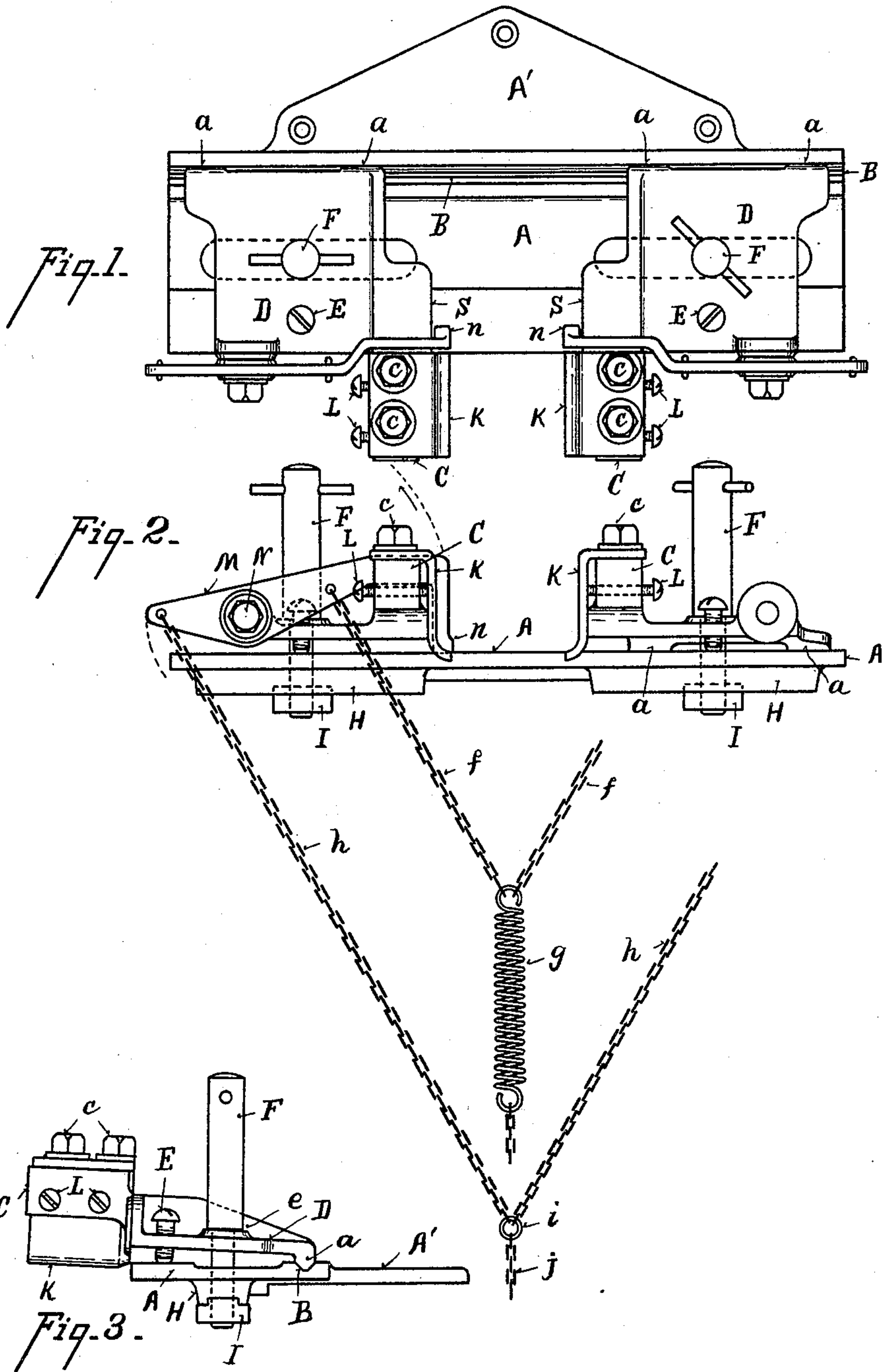
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Patented Sept. 20, 1898.

L. L. MILLER.  
TRACE TRIMMER.

(Application filed Nov. 22, 1897.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

LOUIS L. MILLER, OF NEWPORT, KENTUCKY.

## TRACE-TRIMMER.

SPECIFICATION forming part of Letters Patent No. 611,181, dated September 20, 1898.

Application filed November 22, 1897. Serial No. 659,464. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS L. MILLER, residing at Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Trace-Trim-  
5 mers, of which the following is a specification.

The object of my invention is to provide a trace or strap trimmer which can be readily adjusted to straps of different widths by moving the guide-stocks, and also to provide convenient means for clamping the material  
10 down upon the bed-plate when the straps are drawn between the knives.

Other features of my invention will be more fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a top plan view of my improvement. Fig. 2 is a front elevation thereof. Fig. 3 is a side elevation of one of the guide-  
20 stocks and the bed-plate.

A represents the bed-plate of the machine, and A' a bracket formed integral therewith for attaching the machine to a bench.

25 B represents a grooved way.

C represents a vertical post mounted on the guide-stock D. The rear end of said guide-stock has a depending flange *a*, resting in the groove-guide B.

30 E represents an adjusting-screw tapping through the guide-stock D, with its point bearing on the bed-stock A for adjusting the inclination of the knife-stock, as will be hereinafter explained. The knife K is attached  
35 by screw-bolts *c* to the top of the knife-post.

F represents a clamping-rod having a flange *e*, bearing on the face of the guide-stock D. Said post is tenoned and projects through the bed-plate, moving in a slot formed through  
40 the way H.

I represents a nut into which the tenon of the post taps. Said nut fits and slides in way H. There are two guide-stocks, each being furnished with the parts described, one guide-  
45 stock and its mountings being the counterpart of the other.

L represents adjusting-screws tapping through the knife-posts and bearing against the shanks of the knives.

50 M represents clamping-arms pivoted to the guide-stocks upon center bolts N.

*n* represents a depending foot adapted to

press upon the strap and hold it to the action of the knives.

*f* represents chains attached to a spring *g*, 55 the other ends of the chain being attached, respectively, to the inner ends of arms M, only one of which is shown in Fig. 2.

*h* represents chains attached to the outer ends of said arms and to a ring *i*, which is in 60 turn attached to a foot-lever by a chain *j*, the foot-lever not being shown. It will be observed that the outer ends of said arms are short, so that when the chains *h* are operated the clamp-feet *n* of arms M can be thrown 65 clear back, as indicated in dotted lines, Fig. 2, out of the way of the space between the knives, so as to allow of the ready insertion of a strap by simply dropping between the knives and then holding it down to the ac- 70 tion of the knives by the clamp-arms.

Mode of operation: The adjusting-screw E is set so as to give the desired inclination of the knife-stock to produce the required depth of cut. The adjusting-screws L are likewise 75 adjusted to give the knives the required horizontal adjustment. Then the knives are clamped in position. The guide-stocks are adjusted the proper distance apart to suit the width of the strap and clamped by the 80 screw-rods F into position for trimming. The operator then rocks the arms M by depressing the foot-lever until the feet *n* have moved entirely out of the way of the incoming strap. The strap is then dropped upon the bed-plate 85 between the guide-stocks and the operator releases the foot-lever and the spring *g* pulls the clamp-arms down upon the strap, when the operator pulls it through, trimming off the edges in the desired manner. 90

Having described my invention, I claim—

1. In a trace-trimming machine, the combination of a bed-plate having in its top a longitudinally-arranged grooved way and provided with longitudinally-arranged slots, a 95 pair of guide-stocks having depending flanges to slide in said way, vertical knife-posts carried on said guide-stocks, knives adjustable on said posts, a pair of vertical clamping-rods extended through said stocks and through 100 the slots of the bed-plate and each having a flange bearing on the upper face of the guide-stock, nuts on the lower ends of said clamping-rods, swinging clamp-arms pivoted to the



guide-stocks and having their inner ends provided with clamp-feet adapted to be swung into and out of the space between said guide-stocks, and means for controlling said clamp-arms, substantially as described.

2. In a trace-trimming machine, the combination of the slotted bed-plate A provided in its top with a grooved way B and having on its under side the grooved ways H, guide-stocks D carrying vertical knife-posts C and having flanges *a* slidingly engaged in the way B, knives K adjustable on the knife-posts, means for adjusting said knives horizontally and vertically, flanged clamping-rods F extended vertically through the guide-stocks and through the slots of the bed-plate, nuts I on the lower ends of said rods, clamp-arms M pivoted to the guide-stocks, and adjusting-screws E for the guide-stocks, substantially as described.

3. In a trace-trimming machine, the combination of the slotted bed-plate A provided

with grooved ways B and H at top and bottom, guide-stocks D having flanges *a* slidingly engaged in the grooved way B, flanged clamping-rods F extended through the guide-stocks and through the slots of the bed-plate and provided with nuts I adapted to be engaged in the grooved ways H, adjusting-screws E for the guide-stocks, knife-posts C arranged vertically on the guide-stocks, knives K adjustable on said posts, swinging clamp-arms M pivoted to the guide-stocks, and mechanism for operating said arms to swing their inner ends into and out of the space between the guide-stocks, substantially as described.

In testimony whereof I have hereunto set my hand.

LOUIS L. MILLER.

Witnesses:

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OLIVER B. KAISER.