

(No Model.)

C. SHAUD.
HEEL TRIMMING MACHINE.

No. 535,959.

Patented Mar. 19, 1895.

FIG. 1

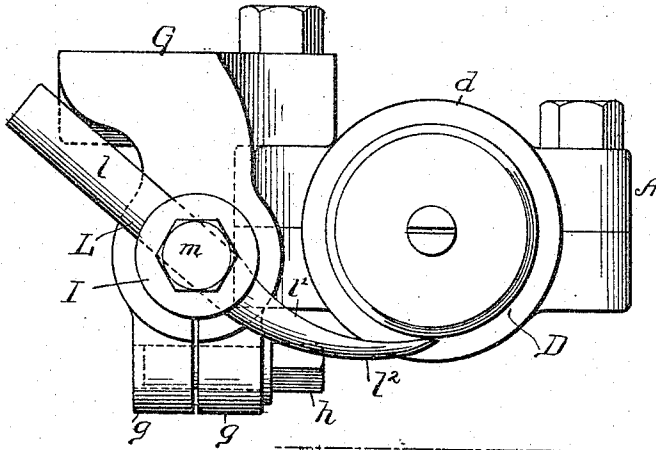


FIG. 2

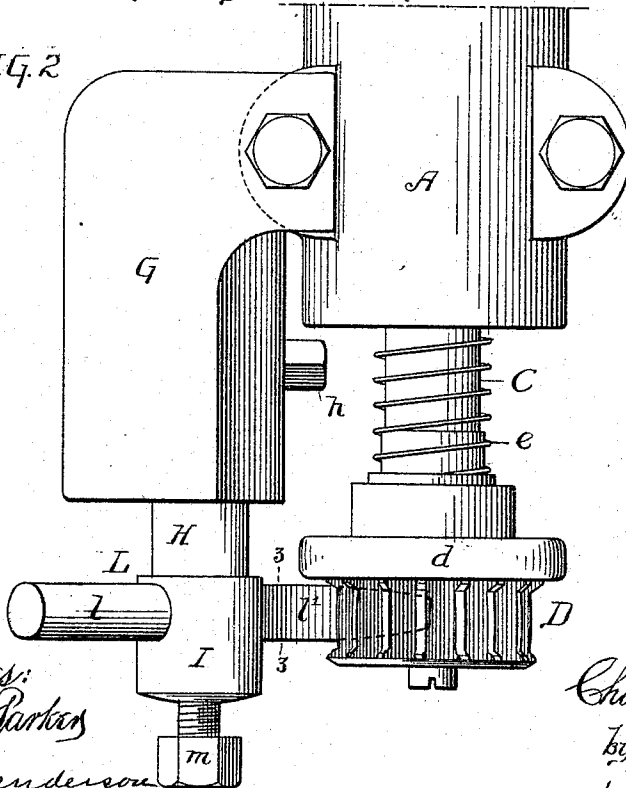
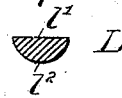


FIG. 3



Witnesses:
Jno. E. Parker
J. Henderson

Inventor:
Charles Shaud,
by his Attorney,
J. Homer Pettit.

UNITED STATES PATENT OFFICE.

CHARLES SHAUD, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF TWO-FIFTHS TO CHARLES J. McKENNA, OF SAME PLACE.

HEEL-TRIMMING MACHINE.

SPECIFICATION forming part of Letters Patent No. 535,959, dated March 19, 1895.

Application filed December 11, 1894. Serial No. 531,435. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SHAUD, a citizen of the United States, and a resident of the city of Philadelphia, State of Pennsylvania, have invented a certain new and useful Improvement in Heel-Trimming Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to that class of machines employed for the trimming or cutting of "spring" heels and consists in so providing a guiding device in connection with a rotary cutter that the depth of cut and the curvature or inclination of the heel may be accurately and readily determined, as more fully set forth hereinafter.

In the accompanying drawings:—Figure 1 is an end elevation of sufficient of a heel trimming machine to illustrate my invention. Fig. 2 is a plan view of the same, and Fig. 3 is a transverse section of the trimming guide on the line 3—3, Fig. 2.

In the drawings all unnecessary details of construction have been omitted in order to more clearly show the construction and relative arrangement of the revolving cutter and the trimming guide.

In heel trimming machines with which I am familiar, it is usual to employ a revolving cutter having a contour corresponding to the desired curvature of the heel, and, as a matter of convenience adjustable rests and supports have been employed in connection with such machines for the purpose of enabling the workman to hold the shoe more firmly in position during the operation of the cutter, and such rests and supports have been made in various forms and applied to different forms of machine but are more commonly employed for "full" heels used on women's shoes where a large amount of leather must be removed. My present invention is distinguished from machines of this class in that it is employed for the trimming and cutting of low or "spring" heels where the amount of leather removed is much smaller and where, as now practiced, the depth of cut and the curvature or inclination of the result-

ant heel depend altogether upon the skill of the workman.

Referring to the drawings, A represents a suitable frame provided with suitable bearings in which is mounted a revolving shaft, C, carrying at its outer end a revolving cutter, D, of a suitable shape and size for the cutting or trimming of spring heels. Over the rear portion of the cutter fits a guard, *d*, held in position by a coiled spring, *e*, surrounding the shaft, C, as usual. The construction of these parts may vary, and form no part of my present invention.

To the frame, A, is bolted a block, G, the lower portion of which is split, forming lips, *g*, which are connected together by a clamping screw, *h*, and within a suitable recess in the block fits a spindle, H, which may be adjusted longitudinally or circumferentially within the block and then firmly locked in position by means of the clamping screw, *h*. The outer projecting edge of the spindle, H, is provided with a head, I, through which passes the trimming guide L, which may also be adjusted longitudinally and circumferentially and when adjusted to the desired position be locked and held by a set screw, *m*.

The trimmer guide, L, has a cylindrical body portion, *l*, fitting within the diametrical opening in the head, I, and its lower end is cut away and curved in such manner as to form an upper flat face, *l'*, and a lower curved face, *l''*, as shown in Fig. 3. The diameter from the body portion to the extreme end gradually tapers and at the end is of a width equal to about one half of the height of the heel and is arranged in close proximity to the central portion of the revolving cutter, D, the distance from the periphery of the cutter to the end of the trimmer being adjusted in accordance with the desired depth of the cut, while its upper flat face, *l'*, enables it to be adjusted very closely to the cutter when necessary.

In operation, considering the cutter and the trimmer guide to be arranged as shown in Fig. 1, the operator holds the heel of the shoe closely against the under side of the guide in such manner that the edge of the heel will be in contact with the rotating cut-

ter, the distance between the edge of the cutter and the end of the guide determining the thickness of the cut as the trimmed portion of the heel will be in contact with the
5 guiding device in advance of the cutter. By loosening the screw, *m*, and turning the guide, *L*, circumferentially its extreme end portion will be inclined somewhat and the
10 edge of the heel will consequently be pressed toward the cutter at a corresponding angle resulting in the cutting of the heel on any desired curve or angle.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In combination with a heel trimmer comprising a rotary cutter and means for operating the same, a guiding device, *L*, consisting of the main body *l*, tapering and inclining toward the guiding end and having an upper
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concave surface facing the cutter, said guiding end being situated in close proximity to and underneath the cutter, substantially as specified.

2. The combination with a rotating cutter 25 of a block, *G*, a spindle, *H*, adjustably secured therein a guiding device, *L*, adjustably held in said spindle, *H*, said guiding device, *L*, comprising a cylindrical body portion, *l*, and a guiding end having an upper flat face, 30 *l'* and a lower curved face, *l''*, the extreme end of the guiding device being situated in close proximity to and underneath the rotating cutter, substantially as specified.

In witness whereof I have hereunto set my hand this 3d day of December, A. D. 1894. 35

CHARLES SHAUD.

Witnesses:

JNO. E. PARKER,
J. HENDERSON.