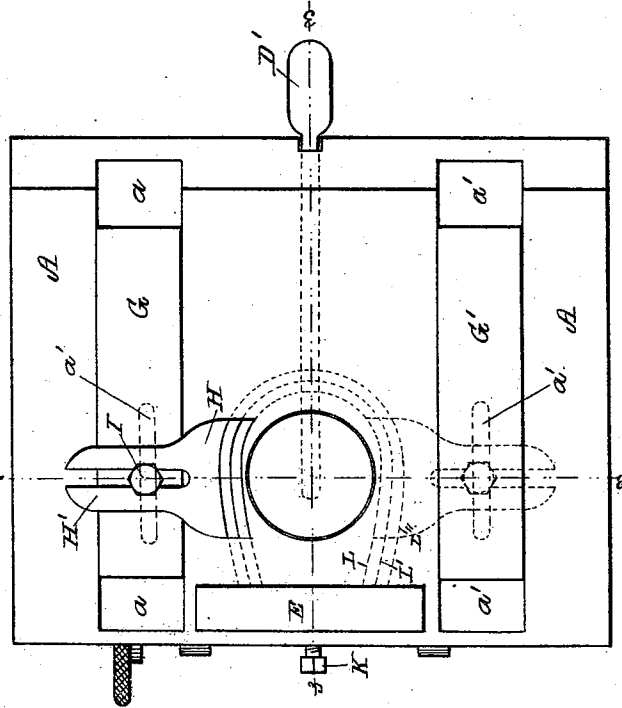
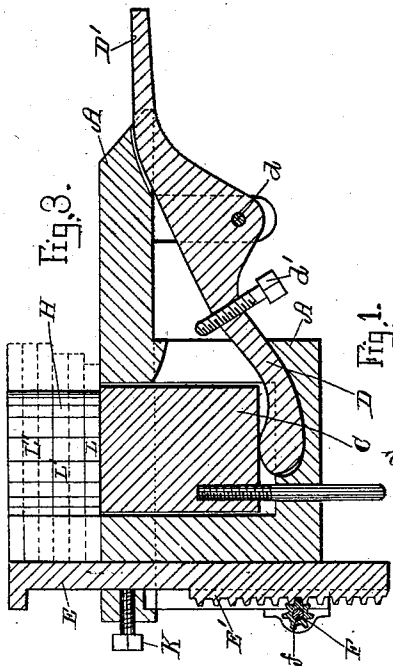
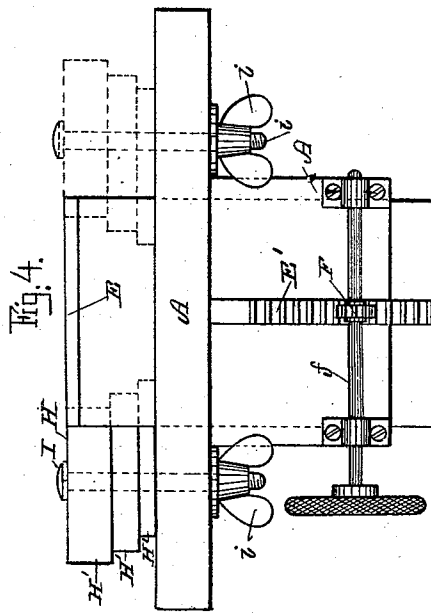
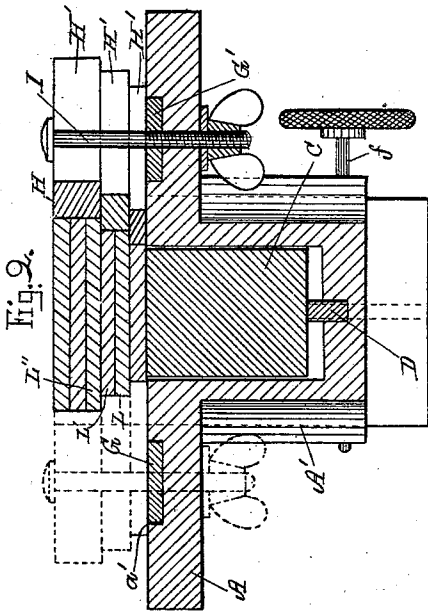


(No Model.)

F. M. GOSS.
HEEL GAGE FOR MAKING HEELS.

No. 537,150.

Patented Apr. 9, 1895.



Witnesses.

Lauritz W. Möller
Charles A. Harris

Inventor.

Frank M. Goss.
Wm. Audie
his atty.

UNITED STATES PATENT OFFICE.

FRANK M. GOSS, OF ROWLEY, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO
MILTON ELLSWORTH, OF SAME PLACE.

HEEL-GAGE FOR MAKING HEELS.

SPECIFICATION forming part of Letters Patent No. 537,150, dated April 9, 1895.

Application filed January 19, 1895. Serial No. 535,470. (No model.)

To all whom it may concern:

Be it known that I, FRANK M. GOSS, a citizen of the United States, and a resident of Rowley, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Heel-Gages for Making Heels, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in heel gages for making heels and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a top plan view of the invention. Fig. 2 represents a cross section on the line 3—3 shown in Fig. 1. Fig. 3 represents a longitudinal section on the line 2—2 shown in Fig. 1; and Fig. 4 represents a rear elevation of the said invention.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In making heels, they are built up of lifts placed one on the top of another, and pasted or nailed together. Such heel lifts are made of pieces varying in size, the top lift being usually the smallest. The heel lifts after being laid one on the top of the other and united by pasting or nailing, are afterward removed from the heel making device and ready for securing them to the soles of the boots or shoes for which they are intended.

My improved heel gage for making heels of any desired height or width is constructed as follows:

A represents a metal work plate adapted to be secured to the work bench in any suitable manner. The said work plate A has on its under side a guide projection or hub A', in a perforation in which is guided the vertically movable plunger or heel extractor C as shown. The said plunger is preferably made cylindrical in section but may be made of any other suitable form or shape without departing from the essence of my invention.

D is a lever pivoted at d on the under side of the plate A and having its rear arranged in contact with the lower end of the plunger C as shown in Fig. 3. D' is a handle in the forward end of the said lever D, which when depressed causes the plunger C to rise for the

purpose of raising the heel from above the plate A and thus facilitate its removal from the latter.

d' is an adjustable regulating screw, screwed through the lever D and adapted to serve as a stop against the under side of the plate A, so as to limit the upward motion of the plunger C as shown.

E is the vertically adjustable heel gage adapted to move up and down in suitable guides attached to or forming a part of the plate A. To said gage is attached a rack E' the teeth of which engage in the teeth of a pinion F secured to a shaft f journaled in bearings attached to the hub A' or plate A, said shaft having secured to one of its ends a wheel or handle F' by means of which the shaft f may be turned so as to raise or lower the gage E according to the height of the heel that is to be made.

a, a', are guide grooves in the top of the plate A in which are guided and adjustably secured the slides G G', as shown in Figs. 1 and 2.

On top of the slide G is adjustably secured one or more heel guides H, H, as shown in Figs. 1 and 2, each such heel guide having a slotted shank H' through which passes a headed fastening screw bolt I which passes through a perforation in the slide G, and through a slotted perforation a' in the plate A and is provided with a thumb nut i, on the under side of said plate A as shown in Fig. 2, by means of which the heel guides H and slide G may be adjustably secured in position to the plate A according to the width and configuration of the heel that is being made.

K is a set screw passing through a screw threaded perforation in the rear of the plate A for the purpose of securing the gage E in position to said plate A after being adjusted relatively thereto.

L, L', L'', L³, represent the heel lifts of which the heel is built up on my improved device.

The operation is as follows: The heel gage E is adjusted above the plate A according to the height of which the heels are to be made, and the slide G with its heel guides H, H, are adjusted in position according to the shape and configuration that is to be given to the heels, after which the heel lifts L, L', L'', are

placed on top of each other on the plate A with their breast ends in contact with the gage E and one of their sides in contact with the step like arranged heel guides H, H, as shown in the drawings, and said heel lifts are pasted or nailed together as may be desired, as one is placed above another during the building of the heel. The heel lifts are thus placed above one another, the smallest one at the bottom, increasing in size upward until the height of the gage E is reached when the heel is finished and may be removed from the plate A simply by depressing the handle D' of the lever D by which the plunger C is raised causing the heel to be lifted above the table A, sufficient to permit the operator to remove it easily without prying it up by means of a knife or other tool usually employed in heel making devices.

What I wish to secure by Letters Patent and claim is—

1. The herein described heel device consisting of a table A having a vertically movable

plunger or extractor C, and a lever D for operating the latter combined with a vertically adjustable heel gage E, longitudinally adjustable slides G, G', and adjustable heel guides H, H, secured to such slides substantially as and for the purpose set forth.

2. The herein described heel device consisting of the plate A, a vertically arranged plunger or heel extractor arranged therein and a lever for its operation having a stop device as described, combined with a vertically adjustable heel gage E, longitudinally adjustable slides G, G', and heel guides H, H, secured in an adjustable manner to such slides substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 8th day of January, A. D. 1895.

FRANK M. GOSS.

Witnesses:

ABBIE F. ELLSWORTH,
WINIFRED ELLSWORTH.