

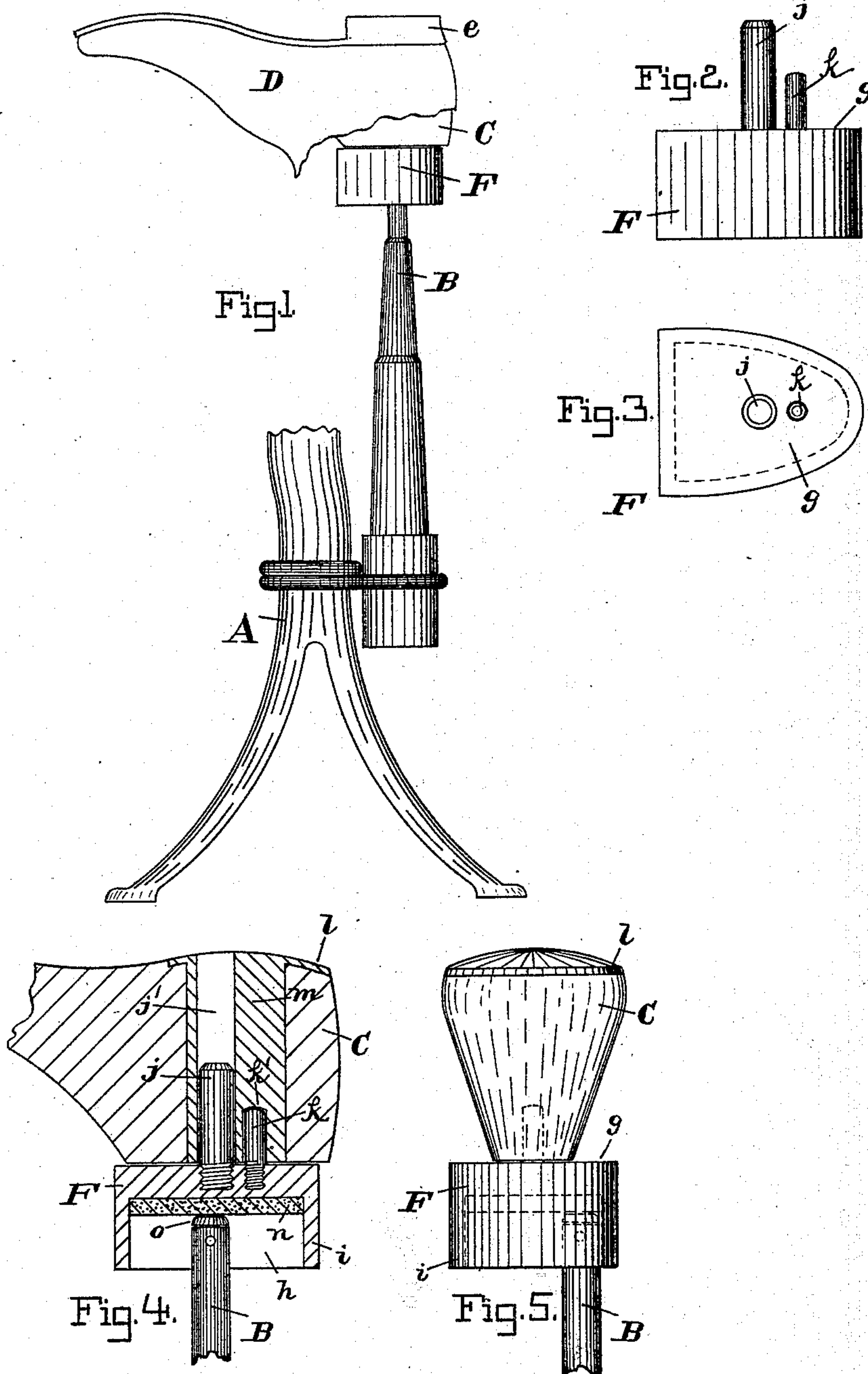
(No Model.)

H. SCHÖCKE.

HEEL SLUGGING MACHINE.

No. 413,463.

Patented Oct. 22, 1889.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## HEEL-SLUGGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 413,463, dated October 22, 1889:

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*To all whom it may concern:*

Be it known that I, HERMANN SCHÖCKE, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Last-Jacks for Heel-Slugging Machines, of which the following is a specification.

This invention relates to a last-jack for use with heel-slugging machines, which are employed in the manufacture of boots and shoes.

The object of my invention is to provide an attachment for shoe-lasts whereby the slugs may be driven into shoe-heels while the last is in the shoe.

The advantage of retaining the last within the shoe while the process of slugging is going on will readily be appreciated by shoe-manufacturers, as by so doing the shape of the shoe will be preserved and the shoe-linings will be kept clean and free of wrinkles.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the lower part or stand of a heel-slugging machine, and shows my improvement and the shoe-supporting post. Fig. 2 is a side view of the improved last-jack. Fig. 3 is a top or back view of same. Fig. 4 is a longitudinal section showing the last, the improved jack, and part of the ordinary supporting-post. Fig. 5 is an end elevation of the same parts seen in Fig. 4.

An illustration of any particular construction of slugging-machine is unnecessary to a full understanding of my invention.

The invention is applicable to any form of such machine where the last and shoe are supported on the top end of a post.

The letter A designates the base or stand of a heel-slugging machine; B, the post attached to said stand, and which supports the last C and shoe D in the position shown while the slugging process is going on.

It will be understood the heel proper *e* is first nailed or secured to the shoe by a suitable machine in the usual way, and then the top lift *e'* of the heel is slugged by the slugging-machine, a part of which is shown in the accompanying drawings.

The improved last-jack F, which forms the subject of this invention, is used when slugging the top lift of the heel, the object being

to keep the last in the shoe while the said slugging is being done. This jack F is attached to the last C, and the operator then grasps the shoe and last and holds them inverted, so that the jack F will rest and move freely upon the top end of the post B, while the slugging mechanism directly above the post (not shown in the drawings) drives the slugs down through the top lift of the heel.

The last-jack F has a back *g*, which is placed in contact with the top or ankle part of the last, and on the opposite or lower side of the said back is a cavity or socket *h*, formed by the rim *i*, projecting from the back. The rim *i* on its cavity side has the approximate shape or form of the shoe-heel *e* that is to be slugged. The back *g* of the jack is provided with two studs or pins *j k*, which are to be inserted into sockets or holes in the last. The last C is provided with a metallic heel-plate *l*, and preferably a block *m*, attached to the said heel-plate, has position in the last, as shown, or in any other suitable way. This metal block is provided with two holes or sockets *j' k'*, which receive the studs on the jack. My invention is not limited to the particular studs *j k* as means for attaching the jack to a shoe-last. The cavity or socket *h* of the jack preferably has a cushion *n*, of leather or other suitable material.

In operation the improved last-jack F is used as follows: When about to slug the top lift to the shoe-heel *e*, the shoe-last C will be retained in the shoe, and the jack F will be attached to the last by the means shown or any other suitable means. The shoe, last, and jack will then be held by the operator with the jack resting on the end *o* of the supporting-post B, said post end being in the cavity *h* and in contact with the cushion *n*. By the operator now turning and moving the shoe, so as to keep one side of the rim *i* in contact with the post end as the slugging progresses, the said rim will prevent the jack from slipping off the post, and the slugs *p* will be entered by the mechanism in the heel at the proper place.

The particular form of last-block *m* or post end here shown is immaterial.

Having described my invention, I claim—  
1. In a heel-slugging machine, the combi-



nation, with the last-jack having a metal back *g* and screw-threaded studs *j k*, secured thereto, of the last *C*, provided with a metallic heel-plate *l* and block *m*, the vertical sockets *j' k'*, for the reception of the studs, whereby the last is held upon the jack, as described.

2. In a heel-slugging machine, the combination of the last-jack having a rim *i*, cavity *h*, and cushion *n*, which rests on the top of the post *B*, the studs *j k*, extending vertically from the top of the jack, and the last *C*, having vertical sockets *j' k'*, fitting over the said studs, whereby the last is held upon the jack, substantially as shown and described.

3. A last-jack for use with heel-slugging machines, consisting of a metal back *g*, provided with suitable means for attachment to the ankle part of a last and having projecting from the said back a rim *i*, forming a cavity *h*, and a cushion *n* in the said cavity.

4. A heel-slugging machine consisting of a jack having studs on its upper face portion and provided with a downwardly-projecting rim *i*, the walls of which form a cavity *h*, and a cushion located in said cavity, in combina-

tion with the ankle portion of a last having openings to receive said studs, and the post *B*, having its upper end inserted in said cavity, so as to bear against the cushion, whereby it can be moved freely on the cushion during the operation of slugging the top lift of the heel, substantially as specified.

5. In a heel-slugging machine, the combination, with the jack, made in the form of a shoe-heel and having a solid upper face portion *g* and a surrounding downwardly-projecting rim forming an interior opening or cavity *h*, of a cushion in said opening which bears against the under part of the face portion, said face portion being provided with vertical pins *j k*, and the last having the sockets *j' k'*, as shown and described, and for the purposes set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

HERMANN SCHÖCKE.

Witnesses:

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