April 30, 1929. C. STOTZ 1,710,718

SHOE HEEL ATTACHING JACK

Filed May 16, 1928

Fig. 1.

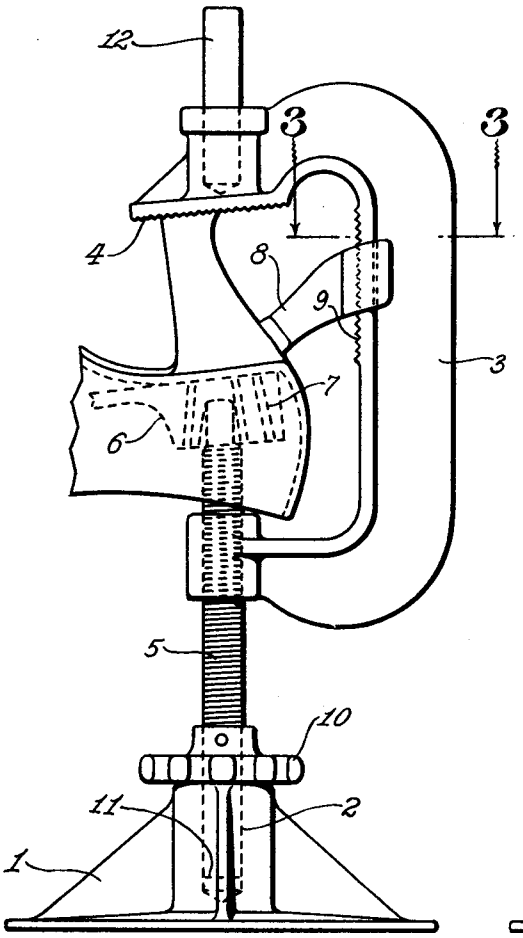


Fig. 2.

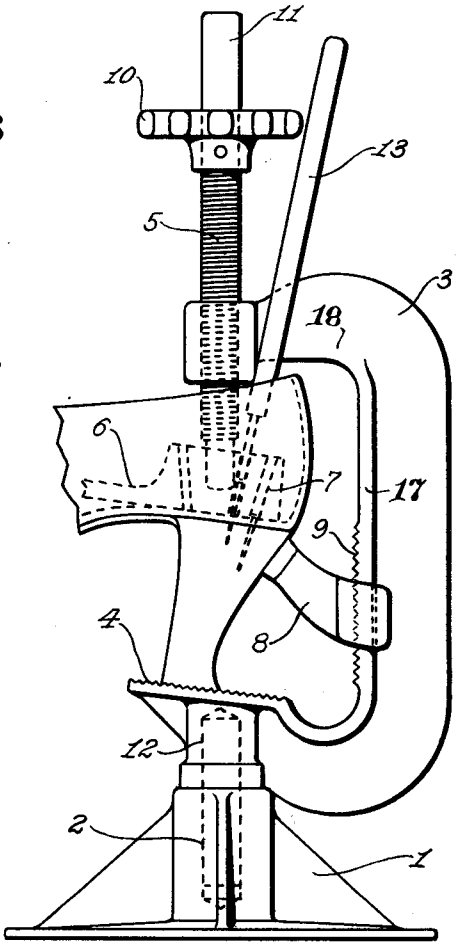
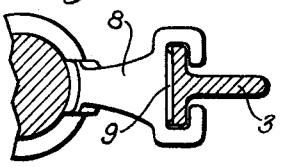


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SHOE-HEEL-ATTACHING JACK.

Application filed May 16, 1928. Serial No. 278,068.

This invention applies to shoe jacks, such as are used to hold a shoe and a heel in assembled relation, for the purpose of securing the heel to the shoe. This application is a continuation in part of application S. N. 247,806, filed January 19, 1928, as to common subject-matter.

One of the objects of this invention is to provide a jack, by means of which a heel may be clamped to a shoe in adjusted position and securely held in that position while the heel is nailed to the shoe.

Another object is to provide such a jack in which the heel may be placed on the shoe in inverted position and clamped and then the jack reversed, so that the nailing may be carried out from the inside of the shoe.

Another object is to provide such a jack which will support the shoe in convenient position and which may be turned about in order to provide access to all sides.

Another of the objects of this invention is to provide a shoe jack which will hold the heel in firm engagement with the shoe in such a way as to avoid slipping during the fastening operation.

Another object is to provide such a shoe jack which will support the heel in adjusted position relatively to the shoe while the jack itself is being tightened to clamp the heel to the shoe.

Further objects will appear from the following description, taken in connection with the accompanying drawing, in which—

Figure 1 is a side view of a jack embodying this invention, in position for adjusting the heel in place on the shoe;

Figure 2 is a similar view, showing the jack inverted and positioned for securing the heel;

Figure 3 is a detail section on line 3—3 of Figure 1.

Referring to the drawing, 1 designates a base having a socket 2. The jack itself comprises a C-clamp body 3 having an abutment 4 adapted to receive the heel tread. The opposite portion of the body is provided with a clamping screw 5 adapted for adjustable engagement with a flaring socket in a clamping block 6 placed inside the shoe, as shown in Figure 1, so as to clamp the same against the heel. The block 6 may be provided with nail guide holes 7 through which nails may be inserted for driving into the heel.

In adjusting a shoe in a clamp of this type, the heel is placed against its seat on the sole of the shoe, and is then inserted in the jack to be clamped in place. It occasionally happens that after the heel has been carefully set in place, the pressure of the clamp has a tendency to shift the heel on the shoe. In order to avoid this difficulty a stop 8 is adjustably mounted on the body 3 so as to be slidable therealong. The body 3 and the stop 8 are provided with matching teeth or corrugations 9 adapted to prevent the stop from slipping under the pressure applied by the clamp.

The screw 5 may be provided with an operating handle 10 and with a shank 11 adapted to fit the socket 2. The opposite end of the body 3 is also provided with a similar shank 12.

In the use of this device, the cam block 6 is placed on the end of the screw 5 and the shoe adjusted thereon to its proper position. The heel is then placed in proper position on the shoe and the screw 5 operated to bring the heel tread properly against the abutment 4, only a light clamping pressure being applied. The stop 8 is now lowered to position to engage the rear portion of the heel near the point where it engages the shoe. The clamping screw 5 may now be tightened so as to clamp the heel and the shoe securely together. During this operation, the stop 8 prevents any slipping of the heel on the shoe and, accordingly, the heel is retained in proper adjusted position and is tightly clamped in that position. The body 3 is now inverted to the position shown in Figure 2, the shank 12 being inserted in the socket 2. In this position the shoe is held upright with the open side up, so as to permit access to the interior thereof for the insertion of fasteners to secure the heel to the shoe. With the clamping block 6 in this position, nails may be inserted in the holes 7 and driven home by means of a suitable nailing tool 13. When the heel has been properly secured, the clamp is loosened. This releases the pressure on the stop 8, which drops of its own weight so as to free the heel and be ready for the subsequent operation.

It will be noted that the inner web 17 of the body 3 is terminated adjacent the end of the body, so as to provide a section 18 of said body without the web 17. This is in

order that the tool 13 may be brought close to the center line of the body 3, in order to drive the nail in the rearmost passage 7, which is usually in the middle of the heel. The presence of a web 17 at this point would interfere with the operation of the tool 13.

It will be seen, therefore, that this invention provides a very convenient device for attaching heels to shoes. By mounting in upright position, as in Figure 1, the heel and shoe may be quickly brought into their proper relative positions and clamped in position. The device is then quickly reversed to position for nailing. The nail guides are easily accessible, and the clamp may be turned about to any convenient position. When the nailing is complete, a turn of the screw 10 releases the shoe and the device is ready for the next operation.

It will be seen that this invention accomplishes its objects in providing a jack of simple construction, which not only clamps the heel and the shoe together in proper position, but which prevents slippage of the heel after it has been adjusted in position.

It is obvious that various changes may be made, within the scope of the appended claims, in the details of construction without departing from the spirit of this invention; it is, therefore, to be understood that this invention is not limited to the specific details shown and described.

Having thus described the invention, what is claimed is:

1. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment adapted to receive the heel tread, a clamp block adjustable on said body to engage the inner sole of the shoe at the heel, a stop adjustable along said body and adapted to engage and support the rear surface of the heel, and a shank on said body adapted for insertion in said socket to hold the jack upright.

2. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment adapted to receive the heel tread, a clamp block adjustable on said body to engage the inner sole of the shoe at the heel, a stop adjustable along said body having non-slipping engagement therewith and adapted to engage and support the rear surface of the heel, and a shank on said body adapted for insertion in said socket to hold the jack upright.

3. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment adapted to receive the heel tread, a clamp block adjustable on said body to engage the inner sole of the shoe at the heel, a stop adjustable along said body having non-slipping engagement therewith and adapted to engage and support the rear surface of the heel, said stop being so positioned that tightening said block against the heel will tighten said stop against the heel, and a shank on said body adapted for insertion in said socket to hold the jack upright.

4. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment adapted to receive the heel tread, a clamp block adjustable on said body to engage the inner sole of the shoe at the heel, a stop adjustable along said body and adapted to engage and support the rear surface of the heel, and a shank on each end of said body adapted for insertion in said socket to hold the jack upright with either end up.

5. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment adapted to receive the heel tread, a clamp block adjustable on said body to engage the inner sole of the shoe at the heel, a stop adjustable along said body having non-slipping engagement therewith, and a shank on each end of said body adapted for insertion in said socket to hold the jack upright with either end up.

6. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment, a clamping block adjustable on said body, and a shank at each end of said body adapted for insertion in said socket to hold the clamp upright with either end up.

7. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment, a clamping block having a nail guide and adjustable on said body, and a shank at each end of said body adapted for insertion in said socket to hold the clamp upright with either end up.

8. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment at one end thereof and an adjusting screw at the other, a clamping block having a nail guide adjustable on said screw, and a shank at each end of said body adapted for insertion in said socket to hold the clamp upright with either end up.

9. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment at one end thereof and an adjusting screw at the other, a clamping block having a nail guide adjustable on said screw, a shank on said body at said abutment, and a shank on said screw, said shanks being insertible into said socket to support the clamp in upright position with either end up.

10. A shoe jack comprising, a base having a socket, a C-clamp body having an abutment at one end thereof and an adjusting screw at the other, a clamping block having a nail guide adjustable on said screw, a shank on said body at said abutment, and a shank on said screw, said shanks being insertible into said socket for rotation therein to support the clamp in upright position with either end up, and to permit rotation of the clamp while so supported.

11. A shoe jack comprising, a base having

a socket, a C-clamp body having an abutment, a clamping screw adjustable in said body, a clamping block cooperating with said screw and having a nail guide in the rear thereof, a shank on said screw, and a shank on said body, said shanks being adapted for insertion into said socket to hold the clamp upright, and said body having an inner web terminating short of the shank thereon.

In testimony whereof I affix my signature this 3rd day of April, 1928.

CHARLES STOTZ.