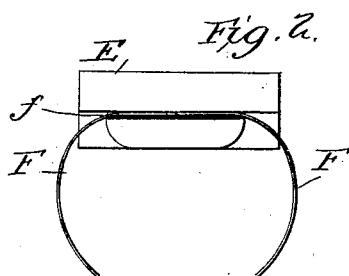
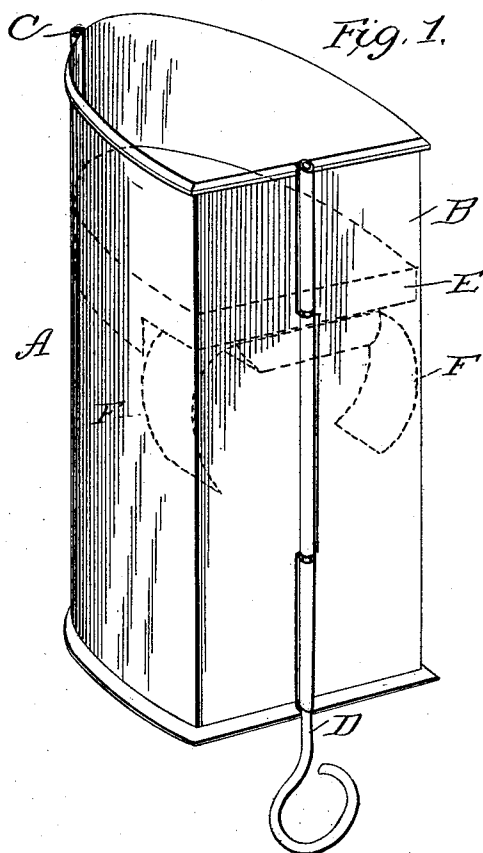


(No Model.)

I. R. ROGERS.
HEEL PACKER.

No. 484,609.

Patented Oct. 18, 1892.



Attest
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UNITED STATES PATENT OFFICE.

ICHABOD R. ROGERS, OF LYNN, MASSACHUSETTS.

HEEL-PACKER.

SPECIFICATION forming part of Letters Patent No. 484,609, dated October 18, 1892.

Application filed December 17, 1891. Serial No. 415,388. (No model.)

To all whom it may concern:

Be it known that I, ICHABOD R. ROGERS, a citizen of the United States of America, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Methods and Apparatus for Making Heels, of which the following is a specification.

My invention relates to the manufacture of heels for boots and shoes.

The invention is hereinafter described in connection with the accompanying drawings, in which—

Figure 1 shows a perspective view of my packer with the sliding block in dotted lines. Fig. 2 shows an edge view of the packer-block.

I take the scraps or fragments of leather, which are ordinarily of little or no value, and cut them by any suitable means into regular forms or pieces, these pieces being so shaped as to fit together to form a lift of the heel. In order to unite these independent pieces to form the block from which the heels are made, I have constructed my improved packer. This consists of a receptacle of sheet metal of a shape corresponding to the shape of the desired heel. This packer is open at both ends and is formed, preferably, in sections A B, hinged together at C by the ordinary or any desired form of hinge. A suitable fastening or locking device is provided, which preferably consists of a rod D of the length of the packer passing through recesses in the edges of the sections, which recesses align with each other when the packer is closed. A sliding or movable block or bottom E is adapted to be placed within the packer, and this bears with sufficient friction against the inner walls to hold it normally in whatever position it may be placed. To aid the frictional contact with the walls of the packer and hold the block more firmly, a curved spring F may be provided, which is secured to the block preferably by embedding the central portion of the spring in a recess *f* in the block, and having its free ends bearing against the walls of the packer.

In operation the sections of the packer are brought together and locked and the block placed in the upper end of the packer and pushed in a short distance from the upper

edge thereof, the frictional contact of the spring with the sides of the packer holding it firmly in this position. A number of the pieces which have been cut from the scraps of leather—for instance, those shown in Fig. 1—are placed in the packer upon the block with their edges in contact, thus forming a lift of the heel. A thin layer of paste or other adhesive material is then spread over the lift, and a second lift similar to the first is placed within the packer upon the first lift; but the position of the second lift is reversed relative to the first lift, so as to break joints and cause the pieces to bind each other securely together. Upon the second lift another layer of adhesive material is applied and another lift placed thereon, this being reversed in position relative to the second lift. After a number of lifts have been placed in the packer upon the block the block with the lifts resting thereon are forced down a little and more lifts placed in the packer, as above described, and this operation is continued until the packer is full. The block, which is then at the lower end of the packer, is removed and the packer is taken to a press. Each packer when full is placed in a press and pressure is applied to compress the lifts into a solid block. When the adhesive material has sufficiently dried or hardened to hold the lifts, the block is removed from the packer by withdrawing the locking-rod and allowing the sections of the packer to separate. After the block is removed from the packer it may be left in the press for any desired length of time, and the packer can then be refilled.

I claim as my invention—

1. In combination with an open-ended receptacle heel-shaped in cross-section, adapted to be filled with lifts of heels, and a freely-movable block within the same, adapted to form a support for the lifts, and frictional means carried thereby for supporting it within the cylinder, substantially as described.

2. A packer consisting of a cylinder composed of two sections hinged together and provided with a suitable fastening device, and a movable block or bottom sliding within the cylinder, substantially as described.

3. A packer consisting of a cylinder open

at both ends, a block or bottom sliding within
said cylinder, and means for insuring frictional
contact between the block and the walls of the
cylinder, consisting of a spring
5 having its central portion embedded in the
block and its ends bearing against the sides
of the cylinder, substantially as described.

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

ICHABOD R. ROGERS.

Witnesses:

JAMES M. SPEAR,

C. H. WELCH.