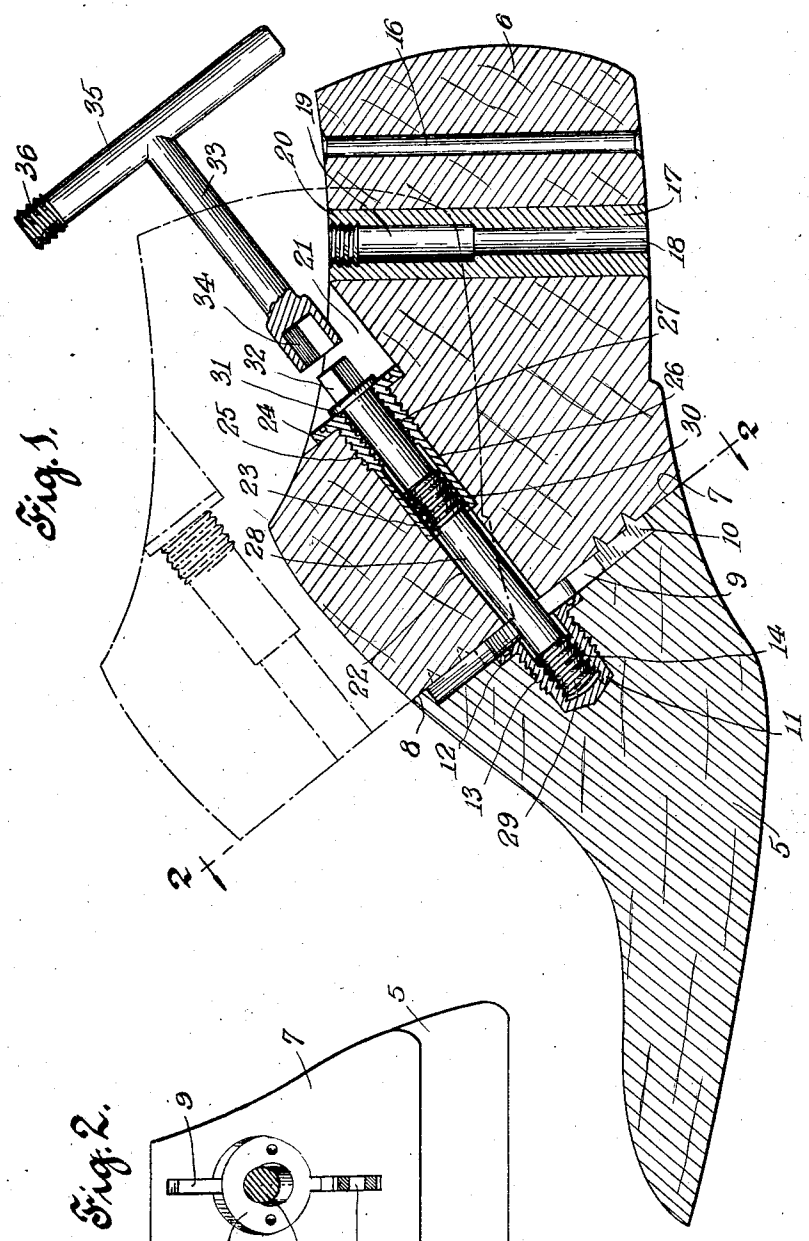
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SHOE LAST

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SHOE LAST.

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This invention relates to shoe lasts and has as one of its objects to provide a last divided into sections in order to facilitate its removal and avoid injury to the rear seam of the shoe during removal.

A further feature is in the provision of a last adapted for filling out or holding the shoe in shape during repairs, and to restore a shrunken or misshaped shoe to its original shape.

Another aim is to produce a sectional last in which the relative movement of the sections is limited and clamping means provided by which the section may be rigidly held in operative position, said clamping means being so retained in one of the sections as to avoid loss or displacement.

A still further feature is in the provision of means whereby the rear or heel section of the last may be conveniently raised and limitedly released from the front or toe section, when the last is to be removed from the shoe.

These several features are accomplished by the novel and practical construction, combination and arrangement of parts hereinafter described and shown in the accompanying drawing, forming a material part of this disclosure, and in which:—

Figure 1 is a longitudinal sectional view taken on the center of a last made in accordance with the invention.

Figure 2 is a transverse sectional view taken in a plane represented by the line 2—2 of Figure 1.

In the illustration the last is shown as composed of two sections 5 and 6, respectively toe and heel, having obliquely inclined meeting faces 7 and 8, the same extending at an angle between the arch and instep of the last.

The toe or forward portion has a longitudinal central recess 9 extending nearly from top to bottom in its face 7, and a guide block 10 slidable therein, is held on the face 8 of the heel or rear portion, by spurs or like fastening means.

Set in the face 7 is a socket 11 having a flanged outer end 12, the outer surface of the flange being level with the bottom of the recess 9, said socket being held in the last section by sharp angular screw threads 13 and containing internal threads 14.

The heel section 6 has near its rear a rivet 16 passing from top to bottom to reinforce the same and forwardly of the rivet is set a cylinder 17 containing an axial opening 18, enlarged at the upper portion 19, and provided with an internal screw thread 20 at its top, the same being level with the top surface of the last.

This cylinder acts as a guide to convey and guide screws or like fasteners through the heel section of the last, into position to engage an ordinary high heel to the sole of a shoe as commonly worn by women, the driving tool for setting the fastener being also guided by the bore of the cylinder.

An angular recess 21 in the upper part of the heel section is so disposed that one of its flat sides is parallel to the face 8 and extending from the recess, through the heel section to the angular face 8, is a bore 22 registering with the axis of the socket 11.

A sleeve 23, having a flange 24, is held in the bore 22 by screw threads 25 drawing the flange against the wall of the recess, and extending into the bore is a cylindrical projection 26 having a plain opening with screw threads 27 only at the outer end.

A bolt 28 is provided with screw threads 29 at its lower end to engage in the socket 11, and at the point intermediate its length is another screw thread 30 engageable in the threads 27 at the outer end of the sleeve 23 when the bolt is retracted.

At the outer end of the bolt is a flange 31 abutting the flange 24 when the bolt is in an operative position, the end of the bolt having a squared head 32.

A wrench 33 is provided with a socket 34 to engage the bolt head 32 and at the opposite end is a handle bar 35, one end 36 being screw threaded to engage the threads 20 of the cylinder 17.

In operation the bolt 28 is turned to release the socket 11, at which time the threads 30 engage the internal threads 27, thus preventing entire separation of the bolt, but releasing the heel section to permit the block 10 to slide in the recess 9 as the sections are given a relative movement.

The handle bar end 36 may be inserted in the cylinder 17 and held by engagement of their respective screw threads, affording an efficient leverage to raise the heel section.

When in operative position it will be seen that the end threads on the bolt 28, and its flange 31, co-operate to draw the heel and toe sections into rigid engagement.

It will be seen that tightening and loosening the sections is readily and rapidly ac-

complished, and that there are no loose parts to become mislaid, and no springs, cams or the like used.

Although the foregoing is descriptive of the preferred embodiment of the invention, it will be apparent that minor changes may be made in the construction, without the exercise of invention or conflicting with the scope of the claims hereto appended.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:—

1. A shoe last comprising a toe and heel section, said sections meeting on an oblique plane drawn in a straight unbroken line from the instep to the arch of the last, a guide block fixed on the heel portion to move limitedly in a recess in the toe portion, and means to secure said sections in rigid engagement when in operative relation.

2. A shoe last comprising a toe and heel section, said sections meeting on an unbroken angular plane, a socket fixed to the toe section, a threaded sleeve fixed in the heel section in register with said socket, a bolt having threads at its end to engage in said socket, said bolt being provided with threads to engage in said sleeve upon being retracted from said socket to prevent withdrawal, and a flange on said bolt to abut said sleeve when its end threads are engaged in the socket.

3. A shoe last comprising a toe and heel section, said sections meeting on an unbroken flat angular plane, a socket fixed in the toe section, a threaded sleeve fixed in the heel section, a bolt having a head contactable with said sleeve, a thread on said bolt engageable in said socket, and a second thread intermediate to the length of the bolt to engage threads in said sleeve upon release of the first named threads, from said socket.

4. A shoe last comprising a toe and heel section, said sections meeting on an oblique plane presenting flat surfaces throughout, said toe section having an elongated recess in its meeting face, a guide block fixed on the meeting face of said heel section to engage in the mentioned recess, a bolt to rigidly unite said sections when in register, means preventing displacement of said bolt, and a cylinder fixed in said heel section, said bolt being provided with a head adapted to receive a wrench having a part engageable in said cylinder to raise the heel section.

5. The combination in a last having two sections, respectively toe and heel, means for guiding said sections in their relative movement, and means for positively clamping said sections when in register, of a tubular cylinder fixed in the heel section, said cylinder being adapted to guide fasteners and having an internal screw thread at its upper end, adapted to receive a wrench having a part engageable in said cylinder to raise the heel section and having another part adapted to engage and actuate said clamping means.

In testimony whereof we have signed our names to this application.

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