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V. MARINO

1,808,963

REMOVABLE HEEL LIFT

Filed Aug. 11, 1930

Fig. 1.

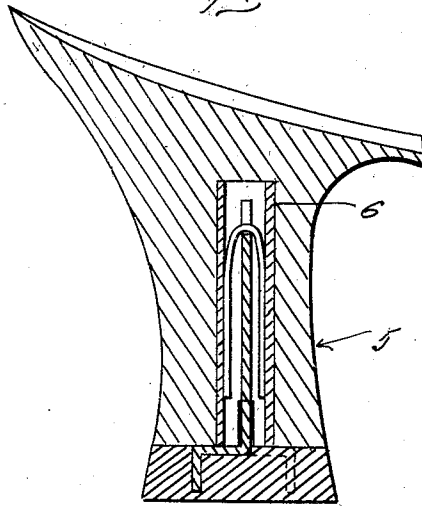


Fig. 2.

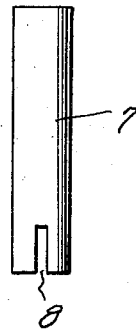


Fig. 6.

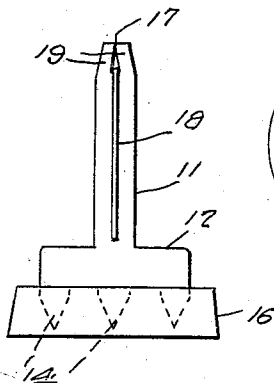


Fig. 4.

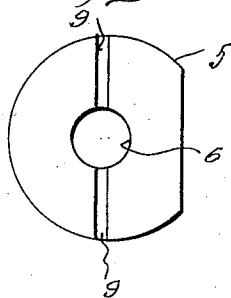


Fig. 5.

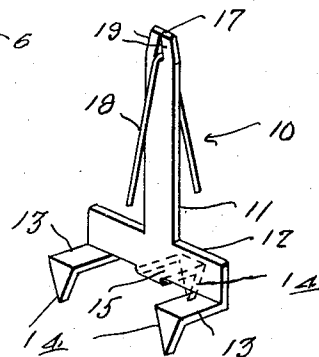
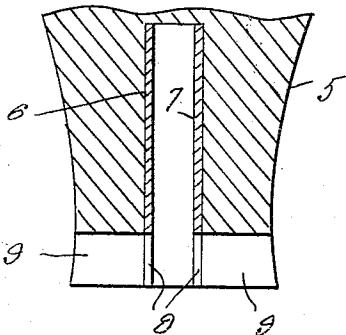


Fig. 3.

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REMOVABLE HEEL LIFT

Application filed August 11, 1930. Serial No. 474,520.

This invention relates generally to heels of shoes and boots and particularly to an improvement in removable top lifts for attachment thereto and a construction of a heel for facilitating the attachment of the lift thereto.

It is an object of this invention to provide an improved heel incorporating an improved top lift and attaching means associated therewith, which will effectively prevent displacement vertically or longitudinally of the top lift from the heel.

It is also an object of this invention to provide an improved top lift for a heel of the type described, which is simple and inexpensive in construction, which is simple and easy to attach, and which is adapted to remain firmly in attached position during the manufacturing processes of making and assembling shoes and while wearing the same.

These and other and further objects of this invention, its nature, its composition and arrangement and combination of parts will be readily understood by anyone acquainted with the art to which this invention relates upon reading the following description of the drawings, in which;

Figure 1 is a central vertical sectional view disclosing a shoe heel having arranged therein and attaching thereto my improved top lift.

Figure 2 is a perspective view of a tubular dowel which is inserted in a bore formed vertically in the heel for receiving the attaching means of my improved top lift.

Figure 3 is a vertical central sectional view, at right angles to Figure 1 and disclosing the slotted formation at the lower end of the heel.

Figure 4 is a bottom view of the heel with the lift and dowel removed.

Figure 5 is a perspective view of the top lift securing means, and

Figure 6 is an end view of the said securing means showing a top lift fastened thereto.

It is to be understood that I do not desire to limit the application of this invention to the particular modification set forth herein to illustrate the same and any change or changes may be made in material or structure consistent with the spirit and scope of the invention.

Referring in detail to the drawings, the numeral 5 designates the conventional shoe heel which is provided with a bore 6 formed vertically therein and opening at the bottom of the heel. Within this bore 6 is disposed a tubular pin 7, which acts as a dowel.

A transverse slot 8 is formed in the lower end of the dowel pin 7 and through both lower edges thereof. The bottom of the heel 5 is slotted as at 9, transversely thereof and through the bore 6, the depth of the slot in the heel formed to correspond and the angular disposition of said slot is such as to place them in linear co-incidence when said dowel pin is driven into the bar 6 of the heel.

Adapted to be inserted into said tubular dowel pin 7, there is provided a heel lift attaching structure generally designated 10 and which comprises a T-shaped member 11, having its cross head 12 disposed downwardly and on one side of a lower longitudinal edge of said cross head 12 and at the outer ends thereof are formed a pair of laterally projecting plates 13 which are provided at their outer edge with the downwardly directed triangular points 14. On the same longitudinal plane and on the opposite side of the cross head and intermediate the ends thereof is another laterally projecting plate 15, having its downwardly directed triangular point 14. The triangular points 14 are adapted to be buried in a top lift 15, of suitable material and shape so as to secure the top lift 16 firmly thereto. The vertical bar of the T-formation is split or cut out at a point 17, in the extremity thereof, to form a slot for the reception of a V-shaped spring wire 18, which is adapted to be inserted through the slot to have its arms depending therefrom, as the said wire is retained in said slot by pressing or forming the portion 19 adjacent the slot so that they close or approximately close the upper end of the slot 17. By this means, the V-shaped wire 18 is retained and secured to and within the slot 17.

It is thought to be obvious from the drawings that the cross head 12 is of flat material and as are the other portions of the T-formation and the part 12 is disposed so that upon

the insertion of the portion of the T-formation carrying the V-shaped wire 18 it is inserted into the dowel pin 7 by pressing the same, that the arms of the cross head will fit snugly within the slots 8 and 9 of the dowel pins and the heel portions respectively, so that the lift 16 will abut the lower end of the heel in proper disposition and that this construction will prevent motion in the horizontal plane of the heel lift. It will be noted that as the structure is forced into the dowel, the legs of the T-shaped wire 18 will be compressed and will, as seen in Figure 1, springably engage the sides of the interior of the dowel pin to prevent easy and accidental withdrawal of the structure therefor.

It is now thought to be obvious that I have provided an improved and novel construction for a removable heel lift of the type described, which is simple and inexpensive in construction, and which is highly efficient and practical, and serviceable in operation, and which is provided with means to effectively retain the removable top lift on a heel and to prevent undesirable displacement thereof when the heel is being worn or when it is being handled when the heel is being assembled into a shoe or in other operation.

It will be obvious that while the V-shaped wire spring piece 18 retains the heel normally against displacement, it makes it possible to withdraw the said attaching structure from the heel when it is desired to remove the top lift for replacement thereof or for other purposes.

What is claimed is:

1. A removable top lift of the type described comprising a shoe heel, provided with a vertical bore extending from its bottom side to a point near its upper side, a tubular dowel pin forced into said bore, the bottom side of said heel and the bottom end of said pin being provided transversely with co-incident slots, an attaching structure comprising a flat T-shaped member, a pair of lateral projections on one side of the lower longitudinal edge of the cross head having points downwardly projecting from the outer edges, a similar lateral projection on the other side of the cross head having a point downwardly projecting from the outer edge, a top lift adapted to be secured to said attaching structure and by said projections and said points, the free end of the vertical member of the T-formation provided with a slot, and a V-shaped spring wire element having its bend disposed in said slots, the adjacent side portions of said slots being bent toward each other to retain said V-shaped wire therein, said vertical member of said T-formation adapted to be inserted in the dowel pin in the heel and the arms of the cross head thereof adapted to be disposed with the slots of the dowel pin and the bottom side of the heel, said V-

shaped wire adapted to springedly contact the walls of said pin to retain said formation therein.

2. A heel of the type described comprising a heel body provided with a vertical bore open at the bottom of the heel body, a tubular dowel pin in said bore, a transverse slot in the bottom of the heel body and the lower end of the tubular dowel pin and communicating with the interior of the dowel pin; a heel lift securing structure adapted to be inserted into the interior of said dowel pin and to be secured therein to fix said heel lift in proper abutment with the bottom of the heel body, comprising an inverted T-formation, laterally projecting portions formed at the lower longitudinal edge of the cross head provided at their outer ends with downwardly disposed points, a laterally projecting portion formed at the other side of the lower longitudinal edge of the cross head and provided with a downwardly disposed joint, a top lift fastened to said portions and said points, the cross head of said T-formation adapted to register in the slot in the heel bottom and dowel pin to prevent relative movement of the heel bottom and the lift, and spring means associated with the upper end of the T-formation for engaging the interior of the dowel pin to prevent accidental withdrawal of the securing structure when in inverted position.

In testimony whereof I affix my signature.
VINCENT MARINO.