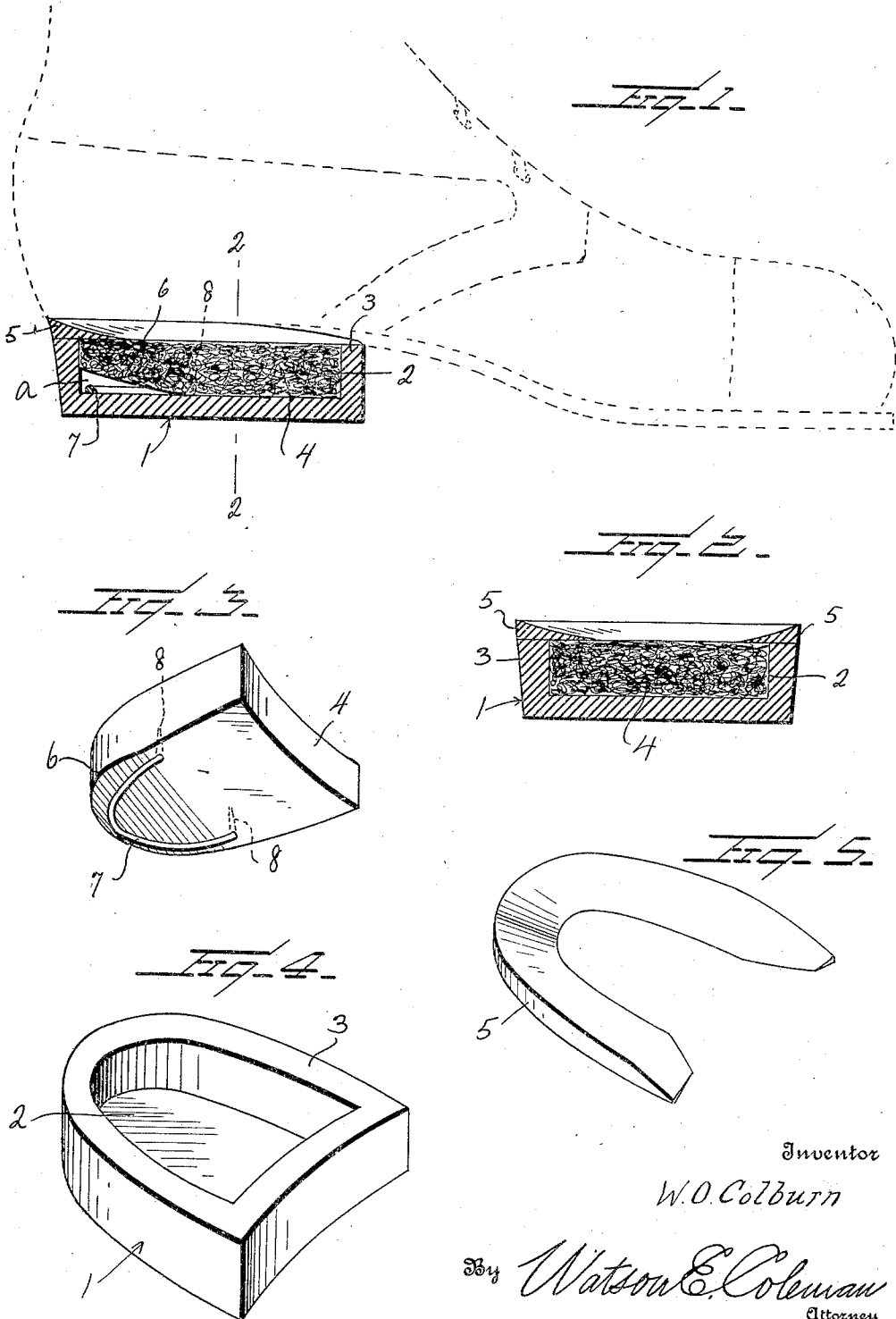


W. O. COLBURN.  
HEEL.

APPLICATION FILED JAN. 31, 1920.

1,362,229.

Patented Dec. 14, 1920.



Inventor

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# UNITED STATES PATENT OFFICE.

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## HEEL.

1,362,229.

Specification of Letters Patent.

Patented Dec. 14, 1920.

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*To all whom it may concern:*

Be it known that I, WILLIAM OLIVER COLBURN, a citizen of the United States, residing at Abington, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Heels, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in heels and has relation more particularly to a device of this general character of a cushion type, and it is an object of the invention to provide a novel and improved cushion heel of a composite structure and wherein the lifts are assembled in a manner to materially facilitate the functioning of the heel.

Another object of the invention is to provide a novel and improved heel of this general character embodying an outer lift of rubber or kindred yieldable material provided in its inner or upper face with a pocket or chamber in which snugly fits a lift of fibrous material, such as cork and the like.

An additional object of the invention is to provide a novel and improved heel of this general character wherein the inserted lift is provided with a spring member to further increase the cushioning action of the heel.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved heel whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a sectional view taken through a heel constructed in accordance with an embodiment of my invention and in applied position, a shoe being indicated by dotted lines.

Fig. 2 is a sectional view taken substantially on the line 2—2 of Fig. 1.

Fig. 3 is a view in perspective of the inserted lift unapplied.

Fig. 4 is a view in perspective of the outer lift; and

Fig. 5 is a view in perspective of the rand.

As disclosed in the accompanying drawings, my improved heel comprises a rubber lift 1 having its upper or inner face provided with a central pocket or chamber 2 of an area slightly less than the adjacent face of the lift 1 whereby the inner or upper marginal portion of said lift is defined by the flanges 3 and which flanges are in continuity.

Snugly fitting within the pocket or chamber 2 is a lift 4 of fibrous material, preferably cork or other wood fiber, and which lift 4, when applied, has its upper or outer face substantially flush with the outer edges of the flanges 3. The lift 4 is preferably adhesively retained within the pocket or chamber 2 and is further maintained in applied position by the rand 5 suitably attached to the outer edges of the flanges 3 and overlying the marginal portions of the applied lift 4. The rand 5 is preferably of rubber.

The outer or under face of the lift 4 at its rear is beveled or inclined, as at 6, outwardly and upwardly or in a direction toward the shoe proper whereby a space *a* is provided between the rear portion of the lift 4 and the adjacent base portions of the pocket or chamber 2 in the lift 1.

7 denotes a resilient or spring member substantially semi-circular in form and which has its extremities terminating in the angularly disposed prongs or spurs 8, disposed in a direction substantially parallel to the axis of the member 7. The member 7 underlies the rear portion of the lift 4 and the prongs or spurs 8 thereof penetrating said lift whereby the member 7 is maintained in applied position. The member 7 also engages the base of the pocket or chamber 2 with its intermediate portion extending within the space *a* hereinbefore referred to. The curvature of the member 7 is such as to substantially conform to the peripheral curvature of the adjacent portion of the lift 4 and is arranged in close proximity thereto.

While the lift 1 and the rand 5 impart cushion qualities to the assembled and applied heel, the cushion action of the heel is materially facilitated by the member 7 and at that portion of the heel subjected to the greatest strain or pressure.

A completed heel constructed in accordance with my invention is adapted to be attached by vulcanizing. While this is the preferred means, I wish it to be understood that other means may be employed which will operate to the same advantage.

From the foregoing description, it is thought to be obvious that a heel constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof, and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

1. A composite heel comprising a lift of yieldable material provided with a chamber in its inner face, a lift fitting within said chamber, and a resilient element carried by the second lift and coacting with the first lift, said resilient element being interposed between the second lift and the base of the chamber within the first lift.

2. A composite heel comprising a lift of yieldable material provided with a chamber in its inner face, a lift snugly fitting within said chamber, and a resilient element carried by the second lift and coacting with the first lift, a portion of the second lift adjacent the resilient element being reduced in thickness to afford a space in which said resilient element is disposed.

3. A composite heel comprising a lift of yieldable material provided with a chamber in its inner face, a lift snugly fitting within said chamber, said second lift being less yieldable than the first named lift, and a resilient element carried by the second lift and coacting with the first lift, said resilient

element being interposed between the second lift and the base of the chamber in the first lift.

4. A composite heel comprising a lift of yieldable material provided with a chamber in its inner face, a lift snugly fitting within said chamber, said second lift being less yieldable than the first named lift, and a resilient element carried by the second lift and coacting with the first lift, said resilient element being arranged at the rear portion of the heel.

5. A composite heel comprising a lift of yieldable material provided with a chamber in its inner face, a lift snugly fitting within said chamber, said second lift being less yieldable than the first named lift, and a resilient element carried by the second lift and coacting with the first lift, said resilient element being interposed between the second lift and the base of the chamber in the first lift, a portion of the second lift adjacent the resilient element being reduced in thickness to afford a space in which said resilient element is disposed.

6. A composite heel comprising a lift of yieldable material provided with a chamber in its inner face, a lift snugly fitting within said chamber, said second lift being less yieldable than the first named lift, and a resilient element carried by the second lift and coacting with the first lift, said resilient element comprising a member having its extremities engaged with the second lift, the intermediate portion of said member substantially conforming to the periphery of the rear portion of said lift.

In testimony whereof I hereunto affix my signature.

WILLIAM OLIVER COLBURN.