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R. R. KAMADA

HEEL FOR SHOES

Filed Oct. 1, 1923

Fig. 1.

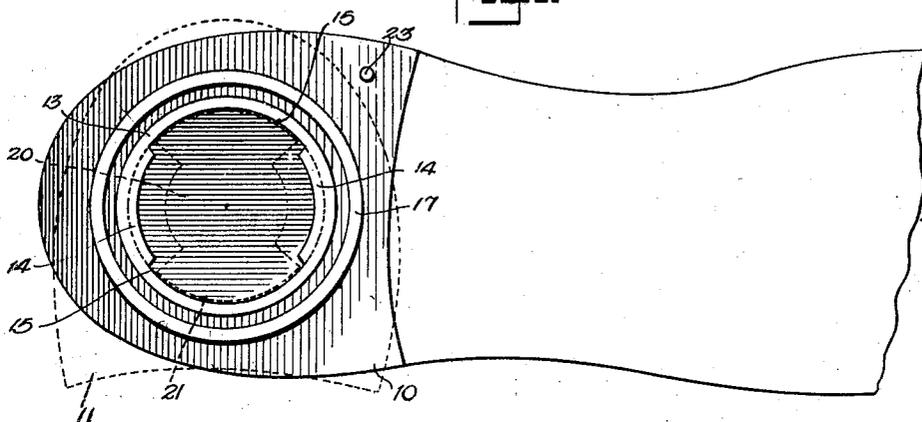


Fig. 2.

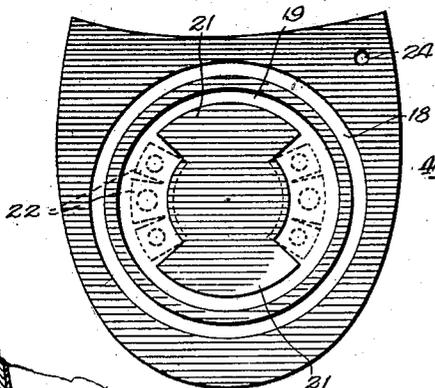


Fig. 3.

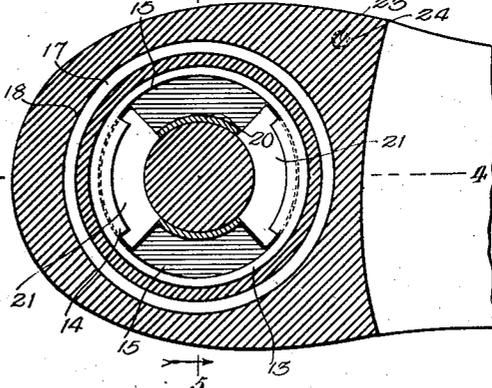


Fig. 4.

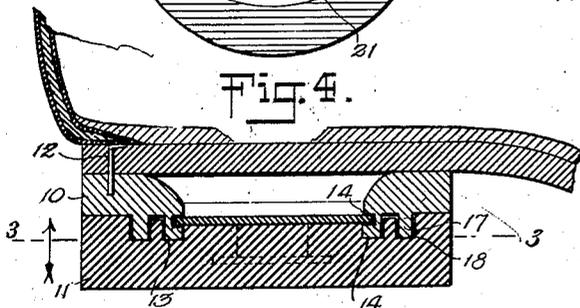


Fig. 5.

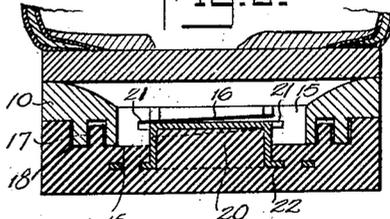
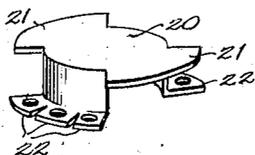


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

RICHARD R. KAMADA, OF NEW YORK, N. Y.

HEEL FOR SHOES.

Application filed October 1, 1923. Serial No. 665,999.

To all whom it may concern:

Be it known that I, RICHARD R. KAMADA, a subject of the Emperor of Japan, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Heel for Shoes, of which the following is a full, clear, and exact description.

This invention relates to shoes and has particular reference to an improvement in heels therefor.

The outstanding object of the present invention resides in the provision of a heel structure which greatly facilitates the application and removal of the tread lift whereby the old worn tread lift may be readily detached and replaced by a new pair by the purchaser without requiring the services of a skilled shoemaker or repair man.

The invention further contemplates a shoe heel structure including a means of connection which functions to properly retain the tread lift in associated relation with the permanently attached lift.

As a still further object the invention contemplates a shoe heel structure which is comparatively simple in its construction, inexpensive to manufacture and which is thoroughly reliable and highly efficient in its purpose.

With the above recited and other objects in view, the invention resides in the novel construction set forth in the following specification, particularly pointed out in the appended claims and illustrated in the accompanying drawings, it being understood that the right is reserved to embodiments other than those actually illustrated herein to the full extent indicated by the general meaning of the terms in which the claims are expressed.

In the drawings,

Figure 1 is a fragmentary bottom plan view of a shoe equipped with a heel structure constructed in accordance with the invention, the detachable tread lift thereof being illustrated in dotted lines to demonstrate the initial step in the application of the same to the permanent section.

Fig. 2 is a top plan view of the detachable tread lift section removed.

Fig. 3 is a sectional bottom plan view taken approximately on the line 3—3 of Fig. 4.

Fig. 4 is a vertical fragmentary sectional view taken approximately on the line 4—4 of Fig. 3.

Fig. 5 is a transverse vertical sectional view taken approximately on the line 5—5 of Fig. 3.

Fig. 6 is a perspective view of a head attaching means which is associated with the detachable tread lift.

Referring to the drawings by characters of reference, the heel structure includes a permanent lift section 10 and a detachable lift section 11, the former being preferably constructed of a light metal and the latter preferably of rubber. The section 10 is provided with suitable elements 12 for permanently anchoring the same to the heel portion of the shoe proper and is further provided with an integral depending annular concentric rib 13. The rib 13 is formed at front and rear diametrically opposed points with vertically spaced pairs of internal peripheral beads 14 each of which extends approximately over a quarter of the periphery thereof and defining at opposite lateral diametrically opposed points notches 15. The confronting upper and lower faces of each pair of beads are correspondingly inclined or cammed as at 16. The section 10 is further provided with a depending tongue 17 spaced concentrically outward from the rib 13. The section 11 is provided in its upper face with an annular groove 18 for the reception of the tongue 17 and is further provided with an inwardly spaced concentric socket 19 for snugly receiving the rib 13. A concentric head 20 projects upwardly from the bottom of the socket 19 and the same is formed with forwardly and rearwardly diametrically opposed segmental ears 21 of an appropriate size to permit of their introduction through the notches 15 when the section 11 is turned at a right angle to the section 10 and whereby upon swinging of said section 11 into alignment with the section 10 the outer periphery of the segmental ears will be snugly received between the vertically spaced pairs of beads 14. The head 20 is preferably constructed of metal and is of cylindrical formation with an open lower end having laterally projecting apertured lugs 22 whereby the member is embedded and anchored in the rubber tread lift section 11. The interengageable means for retaining

the section 11, against accidental turning movement on the section 10 after the ears 21 are engaged with the beads 14, consists of a pin 23 projecting downwardly from the section 10 and a socket 24 formed in the section 11. The inherent resiliency of the tread lift section 11 will normally prevent disengagement of the pin and socket 23 and 24 while the flexibility of the section 11 will permit of a flexing of the same at a point adjacent the socket to permit of intentional disengagement when it is desired to remove the section 11.

In practice when it is desired to detach the section 11 from the section 10 a portion of the section 11 adjacent the socket is lifted up to disengage the socket from the pin 23, after which the section 11 is turned at a right angle to the section 10. This disengages the ears 21 from between the beads 14 and disposes the same in alignment with the notches 15 whereby relative separation of the sections may be readily accomplished. To apply a new tread lift section 11 the operation is reversed. It will thus be seen that a highly efficient heel structure having a simple and inexpensive form of detachable connection is provided for the purpose specified.

I claim:

1. A shoe heel structure comprising a permanent lift section, a detachable lift section, and interengageable means of connection therebetween, said means consisting of an annular concentric rib on the permanent

lift section having internal pairs of diametrically disposed vertically spaced beads, the said detachable lift section having a concentric socket in its upper face for snugly receiving the rib, and a concentric upwardly projecting head in the socket having radially projecting diametrically disposed ears engageable between the vertically spaced pairs of beads upon relative rotary movement of the permanent and detachable lift section.

2. A shoe heel structure comprising a permanent lift section, a detachable lift section, and interengageable means of connection therebetween, said mean consisting of an annular concentric rib on the permanent lift section having internal pairs of diametrically disposed vertically spaced beads, the said detachable lift section having a concentric socket in its upper face for snugly receiving the rib, and a concentric upwardly projecting head in the socket having radially projecting diametrically disposed ears engageable between the vertically spaced pairs of beads upon relative rotary movement of the permanent and detachable lift section, the said internal pairs of vertically spaced beads being of semi-spiral formation to effect the impingement of the confronting faces of the permanent and detachable lift sections when relative rotary movement therebetween is set up to effect their engagement.

RICHARD R. KAMADA.