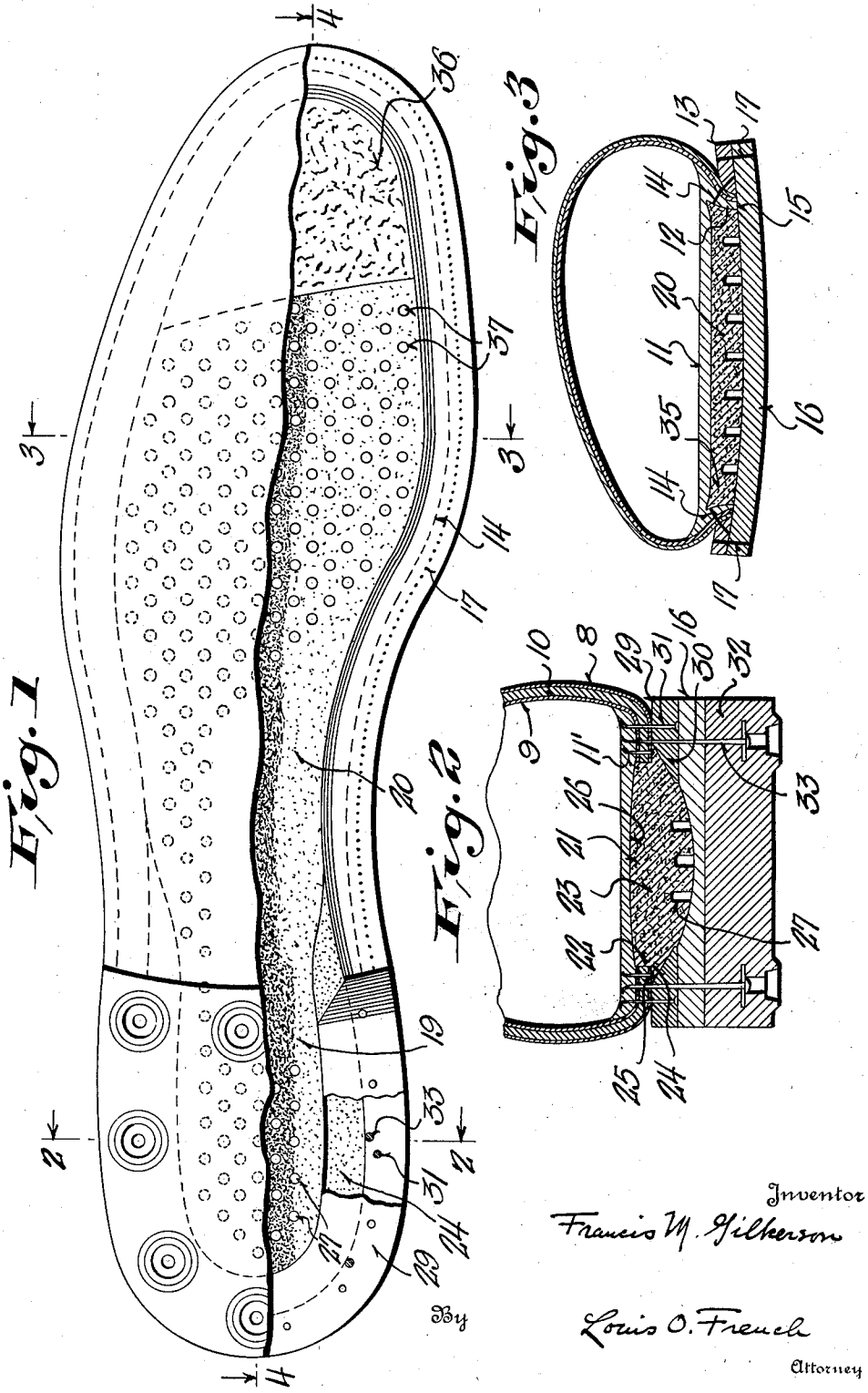
Dec. 16, 1930. F. M. GILKERSON 1,785,410

CUSHIONED SHOE

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CUSHIONED SHOE

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Fig. 4

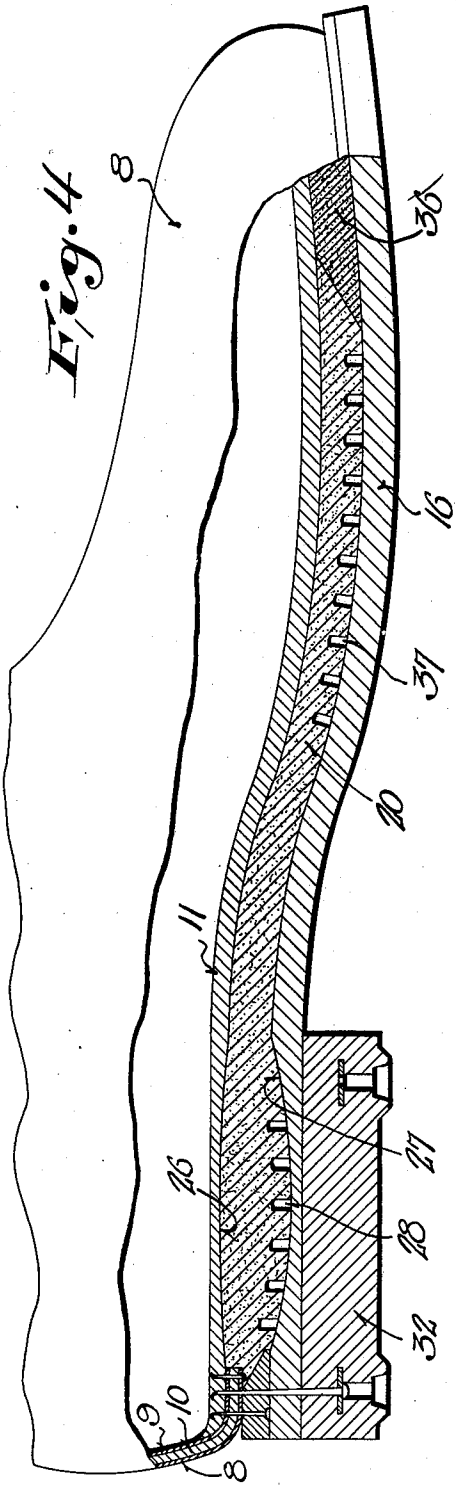


Fig. 6

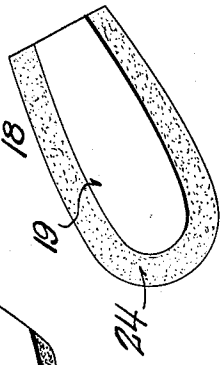
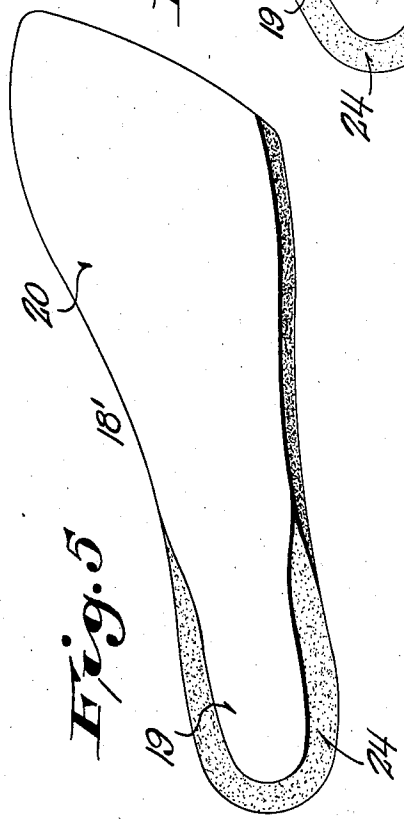


Fig. 5



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Patented Dec. 16, 1930 1,785,410

UNITED STATES PATENT OFFICE

FRANCIS M. GILKERSON, OF BELOIT, WISCONSIN

CUSHIONED SHOE

Application filed February 13, 1930. Serial No. 428,109.

This invention relates to shoes and more particularly to Goodyear welt shoes having nailed seats.

The general object of this invention is to provide a cushion heel construction for Goodyear welt shoes having nailed heel seats which may be expeditiously incorporated in shoes of this type without any change in the factory equipment and which does not materially increase the cost of the shoe, but produces a far more comfortable and healthful shoe than shoes of this type using stiff shank and heel portions. More particularly, cushioning material is secured between the inner sole and the outer sole in a manner permitting the use of nails or other suitable fastening means for securing the heel to the shoe and also preferably without changing the outer appearance of the shoe.

A further object of the invention is to provide a cushioned shoe construction of the character above described in which the cushioning material is also extended into the shank and ball portions of the shoe.

The invention further consists in the several features hereinafter set forth and more particularly defined by claims at the conclusion hereof.

In the drawings Fig. 1 is a bottom, plan view of a shoe embodying the invention, parts of the outsole and heel being broken away;

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

Fig. 3 is a detail sectional view taken on the line 3—3 of Fig. 1;

Fig. 4 is a detail side elevational view of a portion of the shoe, parts being broken away and shown in a section taken along the line 4—4 of Fig. 1;

Fig. 5 is a detail perspective view of the cushion heel and flexible shank member;

Fig. 6 is a detail perspective view of the cushion heel member.

As previously noted, this invention relates to Goodyear welt shoes in which the heel seat is nailed and in which nails are used in attaching the heel to the heel seat and as such the shoe includes the upper 8, which may have a lining 9 and counter 10 associated therewith, these parts being secured in the usual manner to the insole 11 at the heel seat by nails 11′ and the upper and lining secured to the flange portion 12 of said insole and to the welt 13 by the inseam stitching 14, the welt 13 terminating at the junction of the shank and heel.

Usually in shoes of this type the space formed between the inseam ridge 15 and the bottom of the insole is filled with the usual bottom filler, as is also the space under the insole at the heel seat and the outer sole 16 is secured to the shoe by stitching it to the welt at the toe and shank portions of the shoe, as indicated at 17, and by nailing it to the heel seat by separate nails or the nails passing through the heel.

According to the present invention the upper, counter and lining are attached to the inner sole and welt in the usual manner. After this operation the cushion heel member 18, shown in Fig. 6, or the combined heel and shank member 18′, shown in Figs. 1 to 5, inclusive, is used.

Referring first to Figs. 1 to 5, inclusive, a piece of soft cushioning material 18′, preferably molded sponge rubber, is formed to provide a heel portion 19 and a flexible shank portion 20, and from Figs. 2 and 5 it will be noted that said heel portion includes a part 21 which extends up into the space 22 formed between the insole and the inturned flange of the upper and the flange of the counter at the heel seat and takes the place of the usual bottom filler and includes the part 23 which forms the heel cushion proper and that this part projects beyond the filler part, forming a tapered flange 24 which extends underneath the inwardly projecting portions of the upper and counter at the heel seat, as indicated by the numeral 25, but does not project to the outer part of the shoe. It will also be noted that the inner sole is preferably hollowed out or recessed, as at 26, which, together with the hollowing out of the outsole at 27, provides a cavity for receiving a thick or deep body of cushioning material which is springy and resilient and whose resiliency may be further increased by the recesses 28 formed therein extending upwardly from the bottom thereof. The description thus far given also

applies to the heel member 18′ and in each instance these parts are secured to the shoe by the usual cement and, further, I prefer to provide the marginal frame member 29 of leather or other suitable stiff material at the heel seat which surrounds the body of the cushion heel with an inwardly extending, tapered portion 30 which abuts against or overlaps the tapered portion or flange 24 of the cushion heel members and projects inwardly over a portion of the body thereof and is secured to the heel seat portion of the shoe by a series of nails 31 driven through it and into the heel seat and clenched in any suitable manner as, for example, adjacent the upper part of the inner sole.

Thereafter, in the case of the heel member 18, the space between the inseam ridge 15 and the inner sole forward of the heel is filled with bottom filler and the outer sole attached thereto in the usual manner by the stitching 16 and is attached to the heel seat and to the heel 32, here shown as the usual rubber heel, by nails 33 driven through the heel, outer sole, frame 29, upper and counter, and into the inner sole, no nail, however, being used in the mid nail pocket shown in Fig. 4.

In the case of the combined heel and shank member 18′ the heel portion of this member is attached to the heel seat, as previously described, and the shank portion 20 is set into the space 35 formed between the inseam ridge 15 and the inner sole and is cemented thereto and the remainder of this space at the toe portion of the shoe is filled with bottom filler 36. Thereafter the outer sole 16 is secured to the welt by the stitching 17, in the usual manner, and is attached to the heel seat and to the heel by the nails 33, as previously described.

The shank portion 20 of the member 18′ may also be provided with a plurality of perforations or voids 37 to make it more flexible.

I desire it to be understood that this invention is not to be limited to any particular form or arrangement of parts except insofar as such limitations are specified in the claims.

What I claim as my invention is:

1. In a Goodyear welt shoe having a nailed seat, a cushion heel construction comprising a soft rubber member interposed between the inner and outer soles, a marginal frame member of stiffer material surrounding the outer edge portion of said soft rubber member and nailed to the heel seat, a heel, and nails passing through the outer sole, frame member and into the inner sole, said soft rubber member having a portion projecting over the inturned edge of the upper and counter flange at the heel seat.

2. In a Goodyear welt shoe having a nailed seat, a cushion heel construction comprising a soft rubber member interposed between the inner and outer soles and having a portion projecting beneath the inturned edge of the upper and the counter flange at the heel seat, a marginal frame member of stiffer material surrounding the outer edge portion of said soft rubber member and underlying said projecting portion and nailed to said heel seat, a heel, and nails securing said heel to the heel seat.

3. In a Goodyear welt shoe having a nailed seat, a cushion heel construction comprising a soft rubber member interposed between the inner and outer soles and a tapered portion projecting beneath the inturned edge of the upper and the counter flange at the heel seat, a marginal frame member of stiffer material surrounding said soft rubber member and having an inwardly tapered edge underlying said tapered portion and nailed to said heel seat, a heel, and nails securing said heel to the heel seat.

4. In a Goodyear shoe having a nailed seat, a cushion heel construction comprising a soft rubber cushion member interposed between the inner and outer soles and extending into the space between the inner sole and the inturned portions of the upper and counter, said inner and outer soles having recessed portions to provide a relatively thick body of said rubber member therebetween, a marginal frame member of stiffer material surrounding said cushion member and secured to the inner sole and engaging the outer edge of said cushion member, a heel, and nails securing said heel to the heel seat.

5. In a Goodyear welt shoe having a nailed seat, a cushioning member extending over the main portion of the heel seat and shank of the shoe, said member being interposed between the inner and outer soles and filling the space between the inseam ridge and the insole over the shank and space between the insole and the inturned portions of the upper and counter at the heel seat and extending beyond the same to provide a deep cushion at the heel seat, a marginal frame of stiffer material surrounding the outer edge of said cushion member at the heel seat and interposed between the inturned portions of the upper and counter and the outer sole, a heel, and nails securing said heel to the heel seat.

In testimony whereof, I affix my signature.

FRANCIS M. GILKERSON.