May 20, 1930. J. WEINBERG 1,759,379

SPRING HEEL

Filed June 19, 1928

Fig. 1.

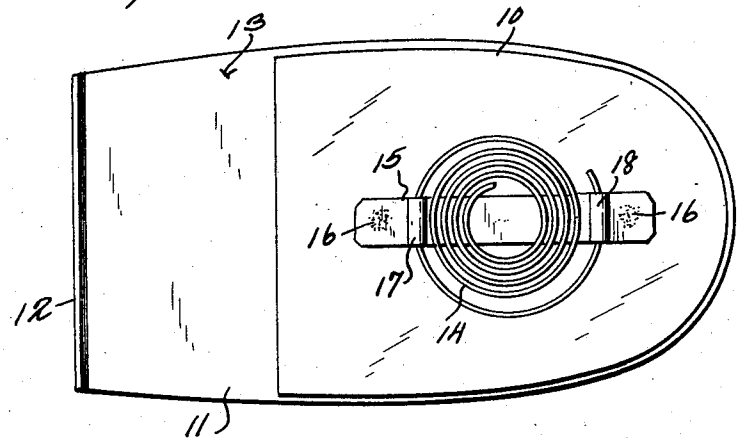
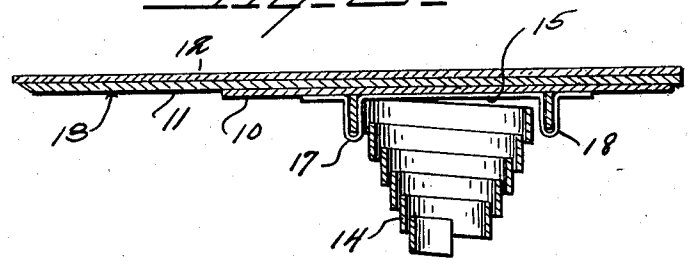


Fig. 2.



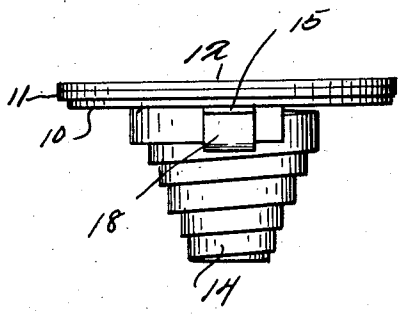


Fig. 3.

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UNITED STATES PATENT OFFICE

JOSEPH WEINBERG, OF NEW CASTLE, PENNSYLVANIA

SPRING HEEL

Application filed June 19, 1928. Serial No. 286,657.

This invention relates to a spring heel adapted to be placed within the shoe and resiliently support the heel of the wearer, the object, of course, being to reduce the shock and jar incident to the impact of the heel against a sidewalk.

A further object is to provide a device of this character which may be separately sold as an article of manufacture for insertion into the heel of a shoe.

My invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is a top plan view of a spring heel constructed in accordance with my invention;

Figure 2 is a longitudinal sectional view thereof;

Figure 3 is an elevation showing the heel supporting plate in section.

Referring to this drawing, 10 designates a metallic plate formed to fit within the heel of a shoe and preferably glued to a leather strip 11 faced on its upper side with a facing of smooth, flexible leather 12. The strips 12 extend out beyond the metallic plate 10 at 13.

Mounted upon the metallic plate is a helical coiled spring 14 formed of a strip of resilient material coiled in gradually decreasing spirals, the spirals being extended vertically downward so that the central spiral stands below the next adjacent spiral and so on. The spiral at the top of the coil is held to the plate by means of a metallic strip 15 welded to the metallic plate at 16, this strip being bent downward as at 17, then extended flatly over the plate and then again bent over and then again extended, as at 18. The top coil of the spring 14 is inserted in these loops 17 and 18 so as to be firmly clamped therein so that the spring will not shift.

This device is adapted to be inserted within the heel of a shoe with the wearer's heel resting upon the heel plate and is designed to give relief from fatigue in walking. In the finished product the plate 10 will be made of aluminum and the spring will be nickeled. However, I do not wish to be limited to this as it is obvious that the plate might be made of zinc or copper and that the spring may be of any suitable material also.

I claim—

As an article of manufacture, a resilient heel support comprising a metallic plate, a leather heel supporting piece to which the heel is attached, a metallic strip welded to the plate and formed with two downwardly bent loops, and a coiled spring of relatively thin material set on edge, the uppermost coil being disposed in said loops and supported thereby, the coils gradually contracting in diameter and one coil being disposed below another coil, each coil normally being disposed within and overlapping the next adjacent coil.

In testimony whereof I hereunto affix my signature.

JOSEPH WEINBERG.