

May 10, 1932.

R. WOLLMER

1,857,751

SHOE SOLE

Filed June 13, 1931

Fig. 1

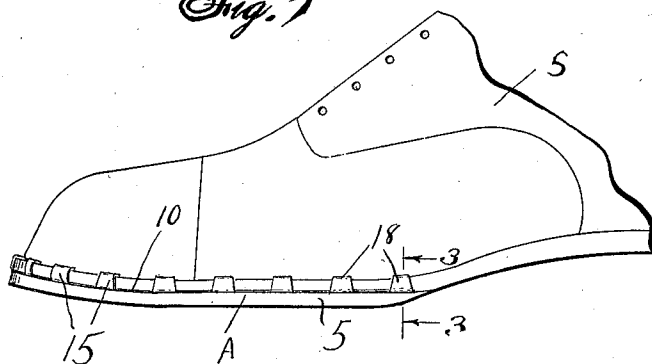


Fig. 2

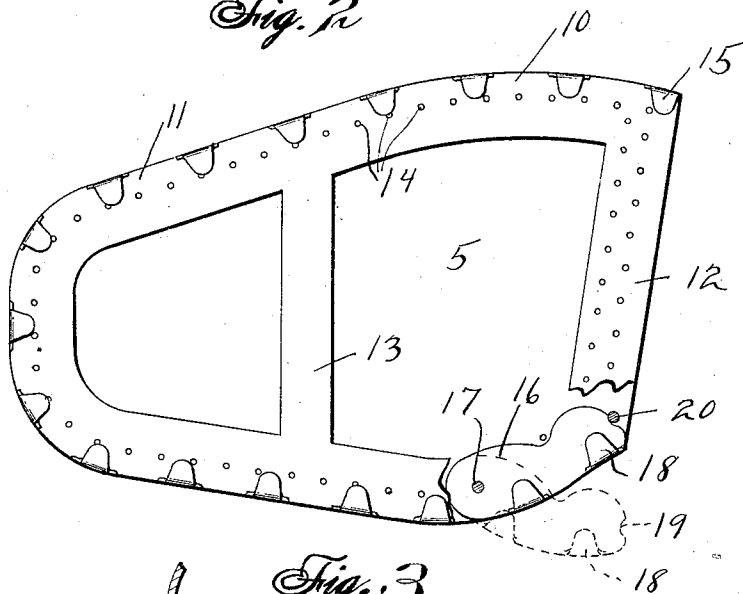
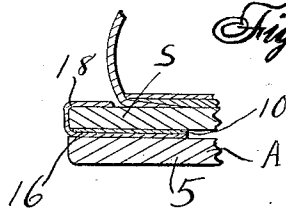


Fig. 3



Inventor
Robert Wollmer
By *Yunus Chumy*
Attorneys

UNITED STATES PATENT OFFICE

ROBERT WOLLMER, OF MILWAUKEE, WISCONSIN

SHOE SOLE

Application filed June 13, 1931. Serial No. 544,165.

This invention appertains to footwear and more particularly to a novel sole for shoes.

One of the primary objects of my invention is to provide a detachable wear-sole for shoes which can be quickly and conveniently secured in place over a worn shoe sole by the ordinary layman without the necessity of going to a shoe repair shop, or to a new shoe to save the sole.

Another object of my invention is the provision of a detachable wear-sole for shoes which can be made in different standard sizes and shapes and sold through retail stores to the purchasing public, the soles being so arranged and constructed as to permit the convenient and expeditious placing of the same in position on a worn shoe sole without any inconvenience on the part of the purchaser.

A further salient object of my invention is the provision of a detachable wear-sole for shoes having prongs or hooks for engaging the worn sole or welt of the shoe, with novel means carried by the detachable wear-sole for locking the same in position on the shoe against accidental displacement or removal.

A further important object of my invention is the provision of a detachable wear-sole for shoes having a plate connected to the upper face thereof, shaped to form to the configuration of the shoe and shoe sole, provided with a plurality of upstanding hooks on the marginal edge thereof for engaging over the welt and worn sole of a shoe, the hooks on one side of the plate at the inner end thereof being removed so as to facilitate the placing of the detachable sole in position, the plate having pivotally connected thereto a swinging latch bar carrying hooks for engaging the shoe, so as to effectively lock the detachable sole in place against accidental removal, novel means being provided for preventing the accidental actuation of the swinging latch.

A still further object of my invention is to provide an improved detachable wear-sole for shoes of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture, and one which can be placed upon the market at an extremely low cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described and illustrated in the accompanying drawings, in which:

Figure 1 is a fragmentary side elevation of a shoe, showing my improved shoe sole connected therewith;

Figure 2 is a top plan view of my improved shoe sole showing a part of the reinforcing plate broken away to illustrate my novel holding latch.

Figure 3 is a detail vertical section taken on the line 3—3 of Figure 1, looking in the direction of the arrows.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter "A" generally indicates my improved shoe sole and the letter "S" a shoe with which the same can be associated.

My improved shoe sole "A" comprises a wear member 5, suitably shaped to conform to the configuration of a shoe and formed from any desired material, such as leather, rubber, or composition of material. Suitably secured to the upper face of the wear member 5 is a reinforcing metal plate 10, preferably of an open framework construction including an outer marginal band or strip 11, shaped to conform to the shoe sole and a rear connecting strip 12. The marginal band or strip 11 can be connected by an intermediate cross strip 13, if so desired. In the present instance, I have shown the plate 10 connected to the wear member 5 of the shoe sole "A" by means of tacks 14 or other suitable fastening elements, but it is to be understood that the plate and wear lift can be connected together in any other manner.

In accordance with my invention, the peripheral edge of the marginal band or strip 10 is provided at spaced points with upstanding hooks 15 for engaging over the worn shoe sole and welt of the shoe "S."

As is usual in the shape of shoes and shoe soles, my improved sole is narrower at its inner end than at the intermediate portion thereof, and consequently, the hooks 15 termi-

nate short of the rear edge of the plate at one side, as can be seen by referring to Figure 2. This permits the free slipping of my improved shoe sole "A" on the worn sole and welt of the shoe "S", without any difficulty on the part of the user.

In order to form an effective means for positively holding my shoe sole in place against accidental removal, I provide a swinging latch plate 16, which is disposed on the shoe sole "A" at that point where the hooks 15 terminate short of the rear end of the plate 10. The latch plate is received between the reinforcing plate 10 and the wear member 5 of the shoe sole "A" and if preferred, the upper face of the wear member 5 can be notched or otherwise treated to receive the latch plate. The latch plate 16 is rockably mounted on a suitable pivot pin 17 extending through the reinforcing plate 10 and the wear member 5. This pivot pin 17 is located adjacent to the forward end of the latch plate 16, so as to permit the free swinging of the latch plate away from the shoe when my improved shoe sole "A" is being applied to or removed from a shoe. The outer edge of the latch plate 16 is provided with upstanding hooks 18, similar to the hooks 15 for engaging over the worn shoe sole and welt of a shoe after the sole "A" has been applied thereto.

The swinging-in of the latch plate 16, to the full line position shown in Figure 2, moves the hooks 18 in engagement with the shoe "S", and as this latch forms, in effect, a continuation of the hooks 15, the shoe sole "A" will be held in place. When the latch plate 16 is swung to the dotted line position shown in Figure 2 of the drawings, the hooks 18 will be swung from out of engagement with the shoe and thereby allowing the free placing of the sole "A" into and out of position.

I have provided novel means for holding the latch plate 16 in its operative position against accidental opening movement and this means includes a keeper notch 19 formed on the extreme outer end of the latch plate, the walls of which are adapted to frictionally engage a latch pin 20 connected to the reinforcing plate 10 and the wear member 5.

When the latch plate 16 is swung to a closed position, the same can be sprung over the keeper pin 20 which will effectively hold the latch plate against movement.

From the foregoing description, it can be seen that I have provided a novel and simple repair sole for shoes which can be readily associated with a worn shoe in a convenient and expeditious time.

Changes in detail may be made without departing from the spirit or the scope of this invention.

I claim:

1. A detachable repair sole for shoes com-

prising a wear member and a plurality of upstanding hooks arranged at the marginal edge of the wear member for engagement with the worn sole and welt of a shoe, said hooks terminating short of the inner end of the wear member at one side thereof to facilitate the sliding of the repair sole on the worn sole of the shoe, and a swinging plate having shoe engaging hooks carried thereby for swinging movement into and out of engagement with the shoe arranged at the inner end of the wear member and at a point where said first mentioned hooks terminate short of the inner end of said wear member.

2. A detachable repair sole for shoes, comprising a wear member, hooks carried by the marginal edge of the wear member for engaging over the worn sole and welt of the shoe, the hooks on one side of the wear member terminating short of the inner end of the wear member, a swinging plate pivotally associated with the wear member at the rear end of the wear member beyond the first mentioned hooks on the side of the wear member, hooks carried by said plate, and means for normally retaining the plate against swinging movement when the same is in operative position.

3. A detachable repair sole for shoes comprising a wear member shaped to conform to the configuration of a shoe with which it is to be associated, a reinforcing plate conforming to the configuration of the wear member secured to the outer face thereof, a plurality of rigid attaching hooks formed on the periphery of the plate, said hooks terminating short of the rear end of the plate on one side thereof, a latch plate arranged between the reinforcing plate and wear member in the rear of the hooks at one side of the reinforcing plate, hooks carried by the outer edge of the latch plate, means pivotally securing the inner end of the latch plate to the reinforcing plate, a latch pin carried by the rear end of the reinforcing plate, and said latch plate having a keeper recess for receiving said latch pin when the latch plate is in its operative position.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

ROBERT WOLLMER.