Nov. 19, 1940. G. R. JAMES 2,222,145

METHOD OF MAKING A GOLF-CALK WRENCH

Filed Oct. 4, 1939

Fig. 1.

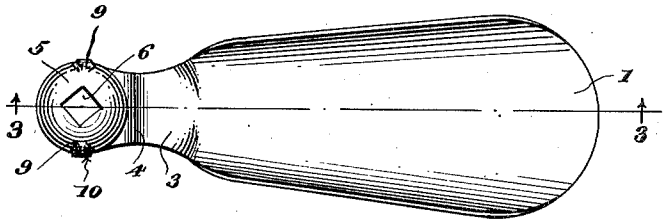


Fig. 2.

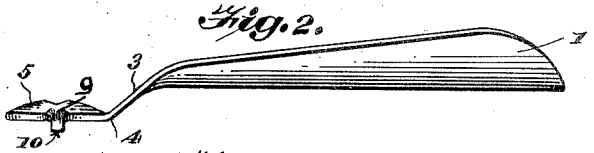


Fig. 3.

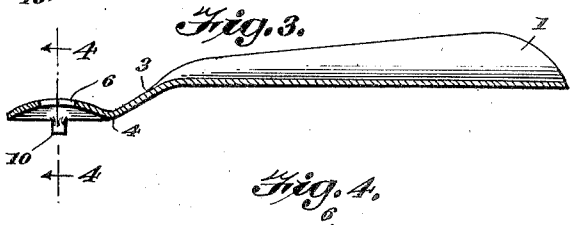


Fig. 4.

Fig. 5.

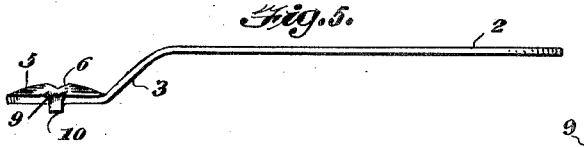


Fig. 9.

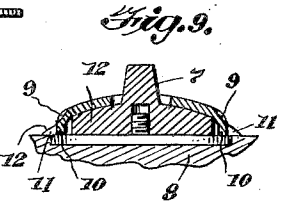


Fig. 6.

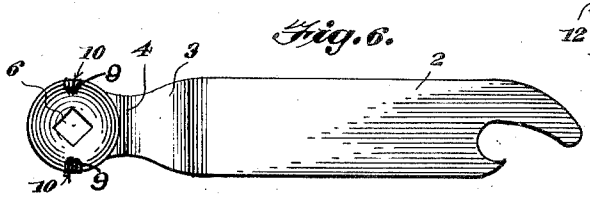


Fig. 7.

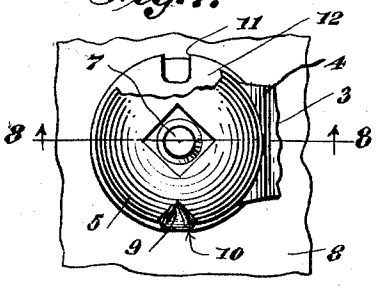
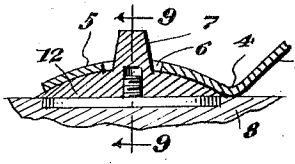


Fig. 8.



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UNITED STATES PATENT OFFICE

2,222,145

METHOD OF MAKING A GOLF-CALK WRENCH

George R. James, Galion, Ohio

Application October 4, 1939, Serial No. 297,954

1 Claim. (Cl. 76—114)

This invention relates to a golf-calk wrench and the process of making same.

The object of the invention is the provision of a wrench tool which is primarily designed for the purpose of attaching and detaching calks to soles and heels of golf shoes.

Another object of the invention is the construction of a wrench having a concaved head, in the nature of a concavo-convex bowl, at its inner end to conform snugly to and fit the shape and size of the exposed surface of golf-calks; this bowl is provided with small lugs pressed in from portions of the top face only of said bowl; said very small lugs extend downwardly from the edge only of the bowl a slight distance.

A still further object of the invention is the process of making a novel golf-calk wrench by pressing in the bowl on its top surface only and at its edge, thereby producing short, small lugs, that have depressions registering with depressions on the top face only of the bowl, by reason of the pressing in action and the formation of said lugs.

With the foregoing and other objects in view, my invention comprises certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawing, and more particularly pointed out in the appended claim.

In the drawing:

Figure 1 is a top plan view of the improved golf-calk wrench, while

Figure 2 is a side view.

Figure 3 is a sectional view taken on lines 3—3, Figure 1, and looking in the direction of the arrows.

Figure 4 is a sectional view, taken on line 4—4, Figure 3, and looking in the direction of the arrows.

Figure 5 is a view in side elevation of another embodiment of the present invention, in which a different type of a handle is illustrated, while

Figure 6 is a top plan view of the same.

Figure 7 is a fragmentary plan view of a golf shoe and golf-calk wrench, showing the wrench applied for operating on the calk.

Figure 8 is a sectional view taken on line 8—8, Figure 7, and looking in the direction of the arrows.

Figure 9 is a sectional view taken on lines 9—9, Figure 8, and looking in the direction of the arrows.

Referring to the drawing by numerals, 1 designates the broad shoe-horn type of a handle (Figs. 1 to 3), while 2 designates the broad bottle-cap opener type of handle. The handle of the embodiments is bent inwardly at 3 and is provided with a transverse straight portion 4, immediately beyond which is formed the novel concavo-convex bowl 5; this bowl 5 constitutes the entire inner end of the handle in each modification.

The concavo-convex bowl 5 has at its center a diamond shape aperture 6 into which fits the calk 7 (Fig. 8) that is detachably mounted on the shoe 8. The aperture 6 may be round in shape (not shown), or of any shape the constructor desires.

The concavo-convex bowl 5 is pressed transversely in its top face only at opposite sides, forming depressions 9 (see Figs. 2, 5 and 9), which produce inwardly-extending small parallel lugs 10 at the edge only of the bowl; these lugs 10 have in their upper ends portions of said depressions 9 by reason of forming said lugs while the metal is very hot, and the pressing of said lugs inwardly. This is a very efficient structure, as the novel formation and construction of said lugs 10 saves material, and consequently, reduces the cost of construction, besides producing efficient lugs at the edge only of the bowl to fit into the corresponding notches of sockets 11 (Fig. 7) of the calk body 12; this calk body 12 is provided with the calk 7, hereinbefore mentioned. It is also to be noted that the novel formation of said lugs 10 leaves the entire concave bottom surface of said bowl smooth and unbroken to snugly fit the top of a golf calk (Fig. 9).

It will be understood that when my improved wrench is placed in position, as clearly shown in Figures 7 to 9, the calk can be either quickly attached or detached from the shoe by imparting rotary movement to the wrench.

This invention is essentially for the greater convenience of users of golf shoes, and by being made in combination with a shoe-horn, bottle-cap opener, and other devices, which constitute the handle of this wrench, will provide maximum utility and usefulness.

Upon referring to the sectional view, Fig. 4, it will be apparent that the pressed-in lugs 10 at the edge only of the bowl 5 are formed substantially in the same arc as the entire body of the bowl. Consequently, the bowl fits snugly upon the curved exterior surface of the body 12, Fig. 8, with the short lugs 10 in the notches or sockets 11, whereby the calk can be quickly attached or detached from the shoe.

Different methods and tools have been used for similar purposes prior to my invention, but by reason of the specific and novel construction

of my wrench, a very efficient device has been produced, which will enable the user of golf shoes to have in his possession an efficient wrench at a comparatively low price.

While I have described the preferred embodiments of my invention, and have illustrated the same in the accompanying drawing, certain minor changes or alterations may appear to one skilled in the art to which this invention relates, during the extensive manufacture of the same, and I, therefore, reserve the right to make such minor changes or alterations as shall fairly fall within the spirit and scope of the appended claim.

What I claim is:

The process of making a golf-calk wrench, comprising forming a concavo-convex bowl on one end of a handle, then heating said bowl very hot, and then while the bowl is very hot transversely depressing portions outwardly and downwardly of the top surface only of said bowl at its edge thereby forming short lugs extending downwardly below said bowl.

GEORGE R. JAMES.