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T. E. PAYNE

1,753,065

CRUTCH ATTACHMENT

Filed July 26, 1929

Fig. 1.

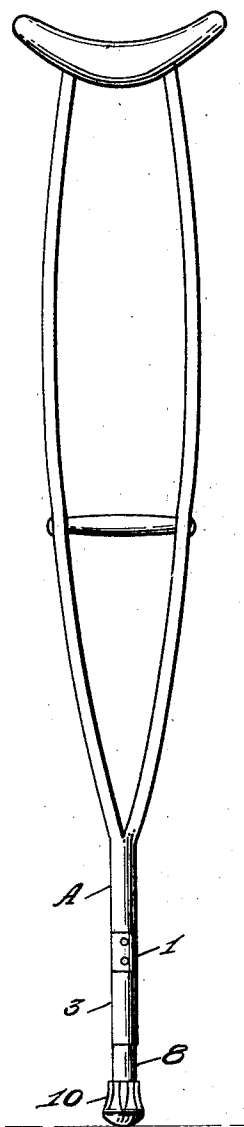


Fig. 2.

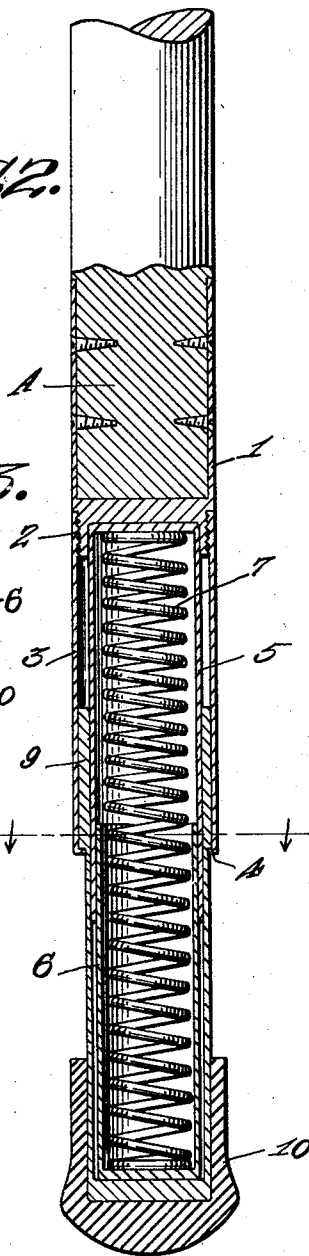
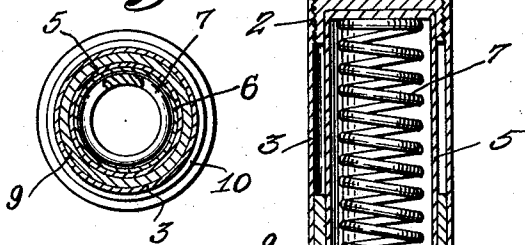


Fig. 3.



Leah Payne,
WITNESS:

Thomas E. Payne
INVENTOR

BY *Victor J. Evans*
ATTORNEY

UNITED STATES PATENT OFFICE

THOMAS E. PAYNE, OF TOLEDO, OHIO

CRUTCH ATTACHMENT

Application filed July 26, 1929. Serial No. 381,231.

This invention relates to an attachment for a crutch, the general object of the invention being to provide a telescopic member adapted to be connected with the lower end of the crutch and having a spring therein for resisting movement of the parts, thus making the device act as a shock absorber for the crutch.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a view of a crutch, with the attachment thereon.

Figure 2 is a sectional view through the lower end of the crutch and through the attachment.

Figure 3 is a section on line 3—3 of Figure 2.

In these views, the numeral 1 indicates a ferrule adapted to be fastened to the lower end of the crutch A and this ferrule has its lower end exteriorly threaded, as shown at 2, to receive the threaded upper end of a sleeve 3, the lower end of which is formed with an inwardly extending flange 4. A pair of tubular members 5 and 6 telescope each other, with the inner ends of these sleeve members open and their outer ends closed. These members form a chamber for receiving a spring 7 and they also form an air chamber. These members are placed in the sleeve 3 and in a sleeve 8 which is dropped into the sleeve 3 before said sleeve is attached to the ferrule and said sleeve 8 has an enlarged upper end 9 which engages the flange 4 so that this enlarged part is held in the sleeve 3 and has sliding movement therein. The lower end of the sleeve 8 is closed and the usual rubber tip 10 is placed over this closed end.

From the foregoing it will be seen that the spring tends to hold the parts with the enlargement 9 of the sleeve 8 against the flange

4 and the spring also acts to resist upward movement of the sleeve 8 in the sleeve 3, so that the spring and the air in the chamber formed by the members 5 and 6 acts as a shock absorber and enables the crutch to be used with comfort. The parts are easily accessible so that the spring can be substituted by one of greater or less strength to suit the weight of the individual using the crutch.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. An attachment for a crutch comprising a ferrule, a pair of tubular telescopic members, the upper one of which is detachably connected with the ferrule, a tip on the lower end of the other member, spring means for resisting movement of the lower telescopic member in the upper one and a second pair of telescopic members placed within the first pair and enclosing the spring and forming an air chamber.

2. An attachment for a crutch comprising a ferrule fastened to the lower end of the crutch and having its lower end threaded, a sleeve having its upper end threaded to the ferrule, with a flange on its lower end, a second sleeve having an enlarged upper end slidably fitting in the first sleeve, with its lower end closed, a tip on said lower end, a pair of telescopic members in the sleeves, each member having its outer end closed and its inner end open, said members forming an air chamber and a coil spring in said chamber.

In testimony whereof I affix my signature.

THOMAS E. PAYNE.

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