A. R. ALLEN.

CRUTCH.

APPLICATION FILED MAR. 23, 1917.

1,253,117.

Patented Jan. 8, 1918.

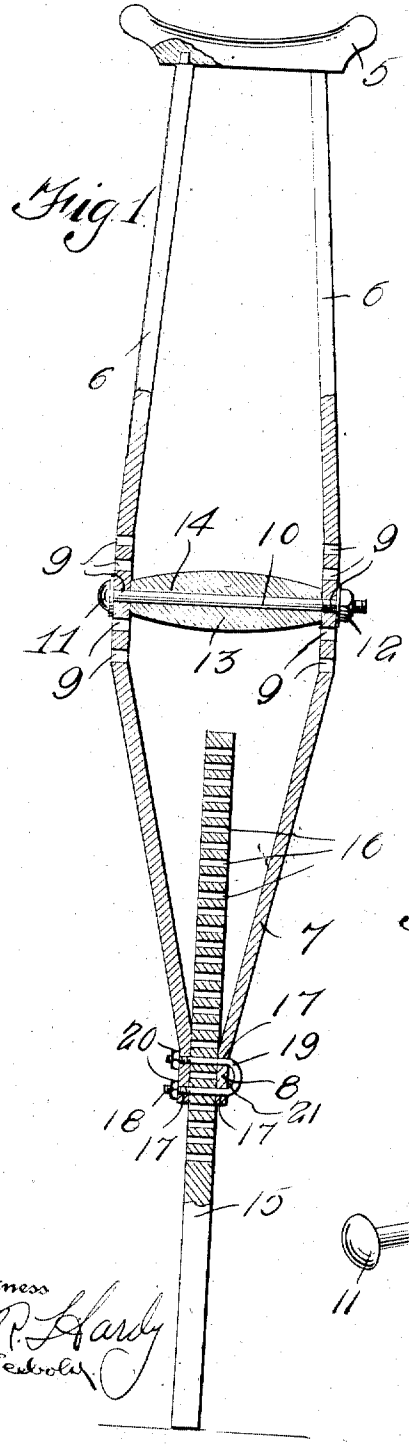


Fig. 1.

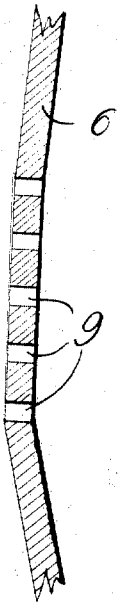


Fig. 4.

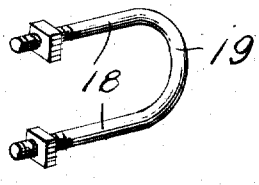


Fig. 2.

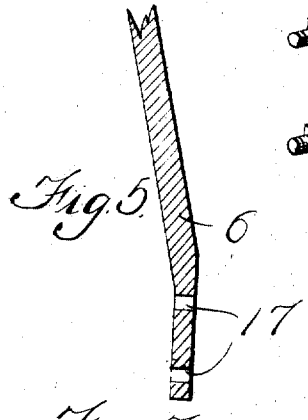


Fig. 5.

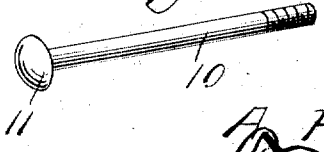


Fig. 3.

Witness
P. Hardy
F. Desbold

Inventor
A. R. Allen
By Randolph & Co.
Attorney

UNITED STATES PATENT OFFICE.

AUSTIN R. ALLEN, OF BIGSPRING, NEBRASKA.

CRUTCH.

1,253,117. Specification of Letters Patent. Patented Jan. 8, 1918.

Application filed March 23, 1917. Serial No. 156,822.

To all whom it may concern:

Be it known that I, AUSTIN R. ALLEN, a citizen of the United States, residing at Bigspring, in the county of Deuel and State of Nebraska, have invented certain new and useful Improvements in Crutches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has for its object to provide an improved crutch embodying novel features of construction permitting the crutch to be adjusted to adapt it for use by persons of various types and also of various arm lengths.

Another object is the provision of means for securely holding parts of the crutch in adjusted position.

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

Figure 1 represents a side elevation, partly in section, of the improved crutch.

Fig. 2 represents a perspective view of the securing clip for the adjustable leg of the crutch,

Fig. 3 represents a perspective view of the bolt for securing the hand grip in adjusted position between the arms or side members of the crutch,

Fig. 4 represents a fragmentary longitudinal sectional view on an enlarged scale of the perforated portion of one of the side members or arms of the crutch, and

Fig. 5 represents a fragmentary longitudinal section view on an enlarged scale of the lower terminal of one of the side members or arms of the crutch.

Referring to the drawing in detail, wherein similar reference numerals indicate corresponding parts throughout the several views, the numeral 5 indicates an arm rest of an approved shape in which are secured the upper terminals of the side members or arms 6, having converging lower terminals 7 provided with parallel lower terminals 8.

The medial portions of the side members 6 are formed with a series of spaced transverse bolt-receiving openings 9, receiving a bolt 10 having a head 11 at one terminal and screw threads at the opposite terminal receiving a nut 12. A hand grip 13 is arranged between the side members 6 and is formed with a longitudinal opening 14 accommodating the bolt 10.

The adjustable leg of the crutch, designated generally by the numeral 15, is formed with a plurality of uniformly spaced transverse openings 16. The adjustable leg is slidably received between the parallel terminals 8 of the side members and the apertures 16 are adapted to be moved into registration with spaced apertures 17 formed in the parallel portions 8 of the side members. The apertures 17 in the side members are arranged a distance apart corresponding to the space betwen three of the openings 16 in the adjustable leg, so as to permit of a wider range of adjustment of the leg and consequently a more accurate adjustment of the crutch to adapt it to the varying requirements of the individuals by whom it is used.

A substantially U-shaped securing clip, including parallel legs 18 and curved web portion 19, is utilized to secure the leg 15 in adjusted position between the side members of the crutch; the legs 18 of the clip, which are threaded, are inserted through the spaced apertures 17 in the side members and through apertures 16 in the adjustable leg which are alined therewith. Nuts 20 are threaded upon the terminals of the legs 18 and, when properly adjusted, draw the parallel ends 8 of the side members together, thereby firmly clamping the adjustable leg in adjusted position. Owing to the curvature of the web portion 19, the medial portion thereof is permanently held in spaced relation to the adjacent portion of the side member 6, thereby providing a space 21 of adequate size to receive the tip of the finger or the point of a tool to facilitate removal of the clip from the crutch in making the desired adjustment of the leg.

In use, it is evident that the hand grip 13 may be adjusted longitudinally of the crutch and may be secured in adjusted position at any point throughout the length of the series of apertures 9. It is also evident that an exceptionally accurate adjustment of the leg 15 with relation to the side members 6 of the crutch may be had by moving the relatively closely arranged openings 16 in the adjustable leg into registration with the

openings 17 in the side members, and subsequently securing the leg in position by the securing clip.

What I claim is:

1. An adjustable crutch including an arm rest, side members connected with the arm rest, the terminals of the side members opposite the arm rest having spaced apertures therein, an adjustable leg having apertures, a substantially U-shaped clip extending through the alined openings in the side members and adjustable leg for securing the latter in adjusted position, the web portion of the clip being curved to provide a handle to facilitate removal of the clip from the crutch.

2. A crutch including an arm rest, side members connected with the arm rest having spaced openings in the terminals opposite the arm rest, an adjustable leg having openings therein arranged in closer relation than the spaced openings in the side members, a substantially U-shaped clip including a curved web portion and parallel legs extending through the alined openings in the side members and leg, the web portion of the clip being curved to provide a handle to facilitate removal of the clip from the crutch, and means associated with the clip for drawing the terminals of the side members together and securely clamping the bolt.

In testimony whereof I affix my signature in presence of two witnesses.

AUSTIN R. ALLEN.

Witnesses:
E. A. ALLEN,
J. STUART KIMBALL.