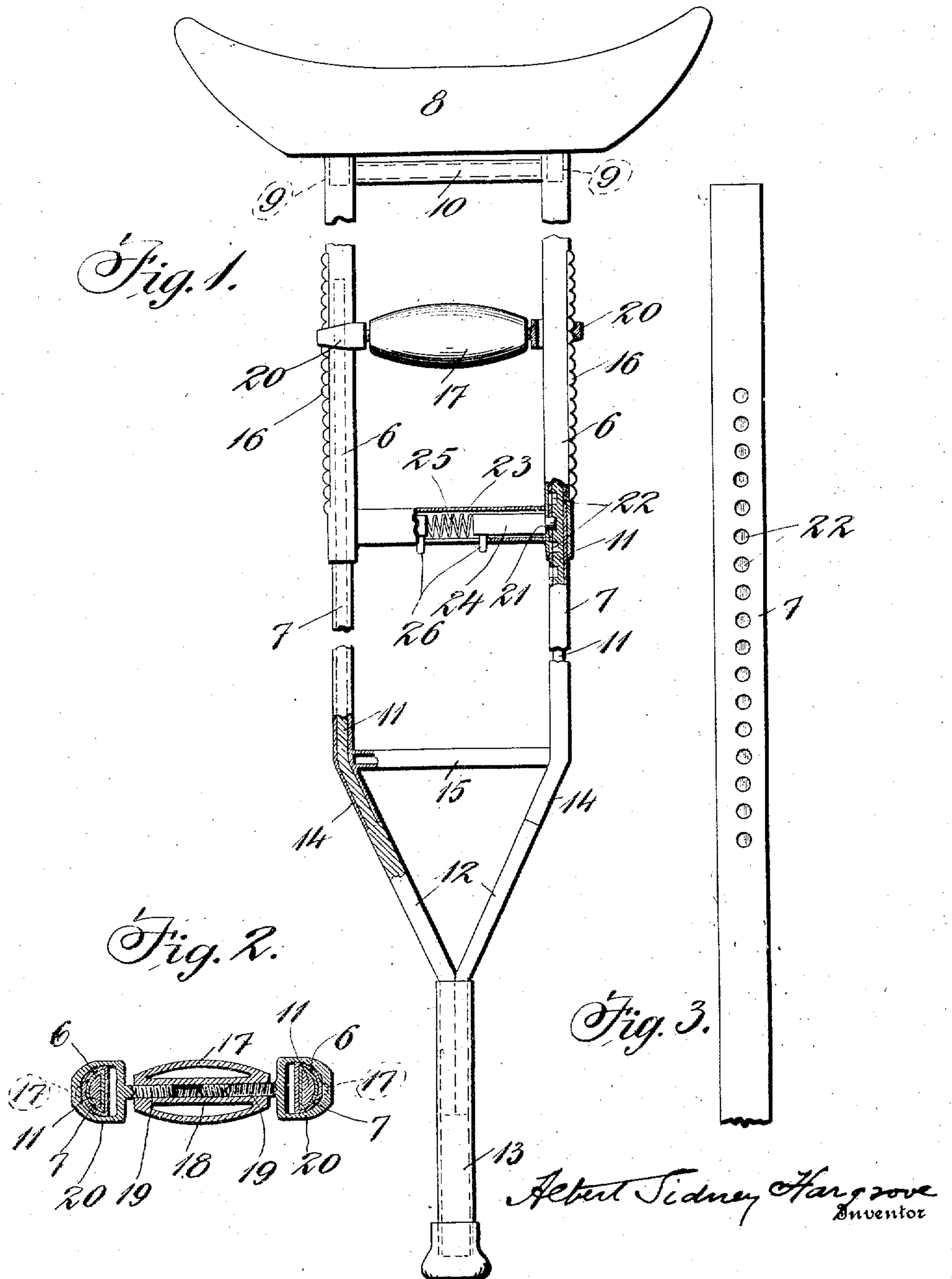


No. 885,339.

PATENTED APR. 21, 1908.

A. S. HARGROVE.
ADJUSTABLE CRUTCH.
APPLICATION FILED DEC. 24, 1907.



Asat Sidney Hargrove
Inventor

Witnesses

A. J. Munster
Geo. E. Jew

By

Wm. B. Stewart
Attorney

UNITED STATES PATENT OFFICE.

ALBERT SIDNEY HARGROVE, OF MEMPHIS, TENNESSEE, ASSIGNOR OF ONE-HALF TO
LUDWELL H. ESTES, OF MEMPHIS, TENNESSEE.

ADJUSTABLE CRUTCH.

No. 885,339.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed December 24, 1907. Serial No. 407,951.

To all whom it may concern:

Be it known that I, ALBERT SIDNEY HARGROVE, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Adjustable Crutches, of which the following is a specification.

This invention relates to adjustable crutches, and has for its object to provide a crutch which can be adjusted to various lengths, to suit the user.

The invention is illustrated in the accompanying drawings, in which

Figure 1 is a plan of the crutch, partly in longitudinal section. Fig. 2 is a cross section on the line 2--2 of Fig. 1. Fig. 3 is a detail of one of the members of the crutch.

The legs of the crutch are formed with upper and lower parts, which can be telescoped with respect to each other to make the crutch longer or shorter. The crutch has two legs or branches each of which has an upper part 6 and a lower part 7 which are made of metal, preferably half round in cross section, and hollow. The section 7 is sufficiently small in size to fit and slide within the upper section 6. The arm piece 8 is set on the upper end of the sections 6 by means of pins 9 which enter said sections, with a small metal brace or support 10 to assist in holding the parts together. Each of the lower sections 7 contains a wooden bar or rod indicated at 11 fitting tightly within the same, which is continued below the metal section as indicated at 12, and joins with the corresponding section from the other side and both are united to the single foot piece 13. The metal section 7 is extended downwardly beyond the angle or elbow, as indicated at 14, to give strength to the joint, which is further strengthened by a metal cross piece 15, which may be soldered to the metal leg sections.

The upper leg sections 6 are provided on their outer sides or faces with longitudinal notched ribs 16, to allow for the adjustment of the handle 17. This handle has a tube 18 within the same, with right and left hand threads in opposite ends, to receive the screws 19 of eyes 20 which are of proper size and shape to fit over or around the leg sections 6, and engage in the notches in the ribs 16. By turning the handle 17, the screw eyes are either loosened or tightened, and

when tightened they are drawn into the notches and the handle is so held as set. By loosening the eyes, the handle may be pulled up or down to desired position.

As stated above, the sections 7 telescope within the upper sections 6. To provide for fixing the parts at adjustment, each upper section 6 has a hole 21 on the inner side, at the lower end, and each lower section 7 has a series of corresponding holes 22, on the inner side, the latter holes being also bored a certain distance within the wooden piece 11, say about one fourth of an inch. A metal tube 23 is soldered between the lower ends of the sections 6, in line with the holes 21, and this tube has therein a pair of sliding bolts 24 adapted to project beyond the ends of the tube and through the holes 21 and into the holes 22, whereby the leg sections are locked together. These bolts are normally extended and the engagement effected by means of a coiled spring 25 therebetween. They may be retracted to unlock the parts by means of finger pieces 26 which project through a slot in the under side of the tube 23 for that purpose.

To adjust the length of the crutch, the latch bolts 24 are retracted, allowing the lower sections 7 to be slid up or down within the upper sections 6, and when set at the desired length the parts are locked together by the latch bolts 24 in the manner described. This may be done without releasing the handle.

The device is capable of modification in various of its details within the scope of the invention, as indicated by the following claims.

I claim:

1. An adjustable crutch having legs with upper and lower sections which telescope, and a spring catch engageable between the sections to hold the same as set.

2. An adjustable crutch having legs with upper and lower sections slidable one within the other, a cross piece extending between the outer sections, and sliding bolts mounted upon the cross piece and engageable with the respective sections of the legs to hold the same as set.

3. An adjustable crutch having legs with upper and lower sections slidable one within the other, a cross tube extending between the outer sections, said sections having openings at the ends of the tube and the inner sections

having a series of openings which may be registered with said tube, and bolts mounted in the tube and slidable into and out of said openings, for the purpose stated.

- 5 4. An adjustable crutch having legs each of which has a hollow metal section, a wooden bar within the section and projecting below the lower end thereof, and a

foot piece into which the lower ends of said bars project.

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

ALBERT SIDNEY HARGROVE.

Witnesses:

L. H. ESTES,

C. L. COYNER.