No. 877,231. PATENTED JAN. 21, 1908.

C. P. ROGERS, Jr.

CRUTCH TIP.

APPLICATION FILED APR. 12, 1907.

Fig. 1.

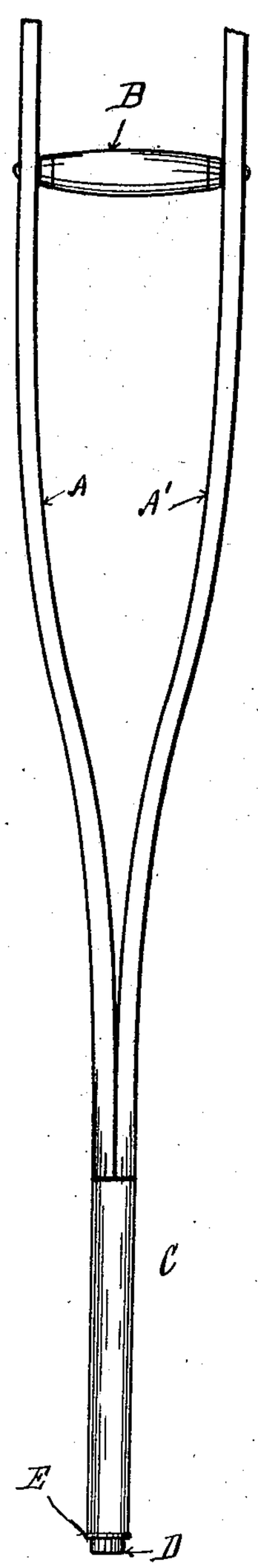


Fig. 2.

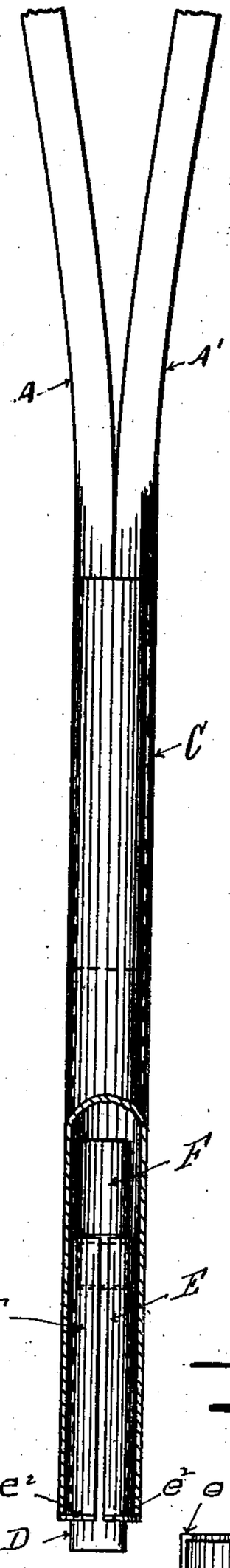


Fig. 4.

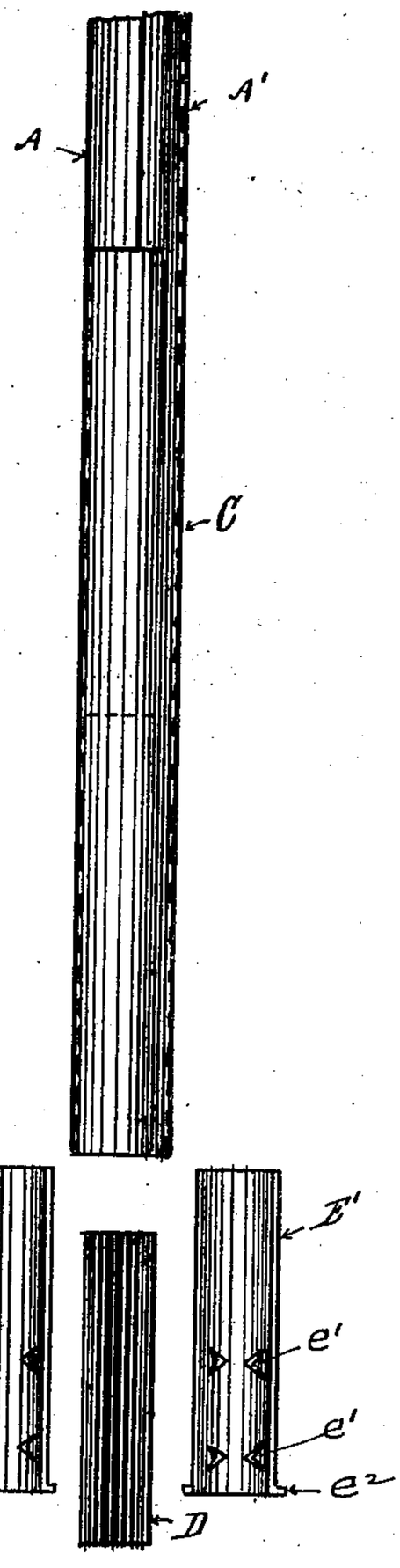
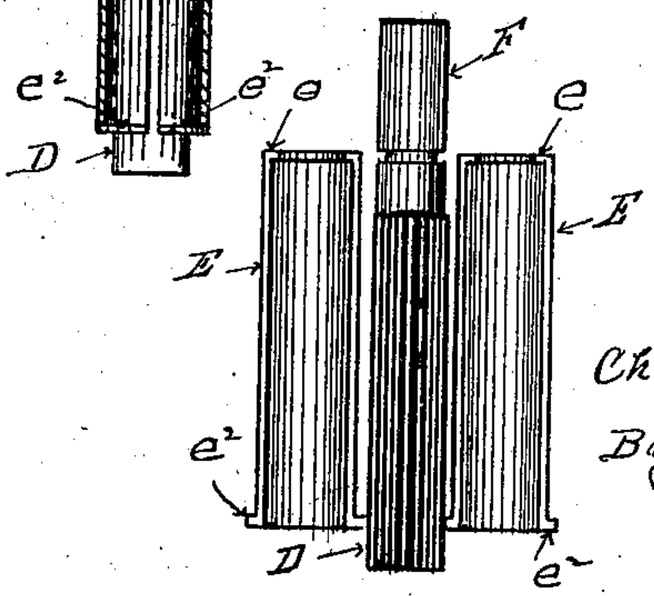


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

CHAUNCEY P. ROGERS, JR., OF CORRY, PENNSYLVANIA.

CRUTCH-TIP.

No. 877,231. Specification of Letters Patent. Patented Jan. 21, 1908.

Application filed April 12, 1907. Serial No. 367,870.

To all whom it may concern:

Be it known that I, CHAUNCEY P. ROGERS, Jr., a citizen of the United States, residing at Corry, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Crutch-Tips; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention relates to crutch-tips, and consists substantially in improvements in resilient crutch-tips and in the mechanism forming the lower portion of the crutch for securing the resilient tips thereto.

The features of my invention are hereinafter fully set forth and explained, and illustrated in the accompanying drawings in which:

Figure 1 is a view in elevation of the lower portion of a crutch embodying my improvements. Fig. 2 is a view of the same, partially in elevation and partially in section. Fig. 3 is a view in elevation of the detached parts of the tip mechanism. Fig. 4 is a side elevation of the lower part of the crutch, showing a modified construction of the tip securing mechanism.

In these drawings A A′ represents the two parts of an ordinary crutch and B the handle mounted between them in the usual manner. The lower ends of the parts A A′ I preferably secure together by means of a hollow ferrule or sleeve C, which forms the lower portion of the crutch. In the lower end of this sleeve C, I secure a resilient tip D, made of rubber or other resilient material, around which I place a longitudinally divided sleeve E, adapted, when pressed into the lower end of the sleeve C to firmly grip the resilient tip D and prevent its longitudinal movement therein.

In Figs. 2 & 3, I show the upper end of the divided sleeve E to be provided with an inturned flange *e* which is adapted to engage a grooved plug F, which, in case the resilient tip should be inclined to move upward in the sleeve E, effectually prevents it so doing, and when the part D because of wear or other reasons is moved downward in the sleeve, the plug F can be reversed and the longer end thereof inserted in the sleeve E. I do not, however, deem this feature essential to the successful operation of my invention, as the divided sleeve E when placed upon the tip D and inserted into the lower end of the sleeve C will firmly grip the tip D so as to prevent any longitudinal movement thereof.

In Fig. 4 I show a modified construction of a longitudinally divided sleeve E′ which is provided with inwardly projecting points *e′* which will be pressed into the body of the resilient tip D and firmly hold the tip D from longitudinal movement in the sleeve E′. The sleeves E and E′ are both provided on their lower ends with outwardly turned flanges e^2 whereby they can be readily withdrawn from the end of the sleeve C when desired.

From the foregoing description, it is obvious that when the lower end of the resilient tip D is worn away, the sleeves E or E′ can be withdrawn, and the tip D moved downward therein and the whole then replaced in the sleeve C, and this can be repeated until the tip D is worn away so as to be too short to be firmly held by the divided sleeve E or E′.

Having thus described my invention so as to enable others to construct and use the same what I claim as new and desire to secure by Letters-Patent of the United States is:

1. The combination in a crutch-tip mechanism, of a hollow sleeve forming the lower end of the crutch, a longitudinally divided sleeve telescopically insertible therein, a resilient tip insertible longitudinally in and adjustable in said divided sleeve, and means for preventing the longitudinal movement of the resilient tip in the divided sleeve after the insertion thereof into the sleeve forming the lower end of the crutch, substantially as set forth.

2. The combination in a crutch-tip mechanism, of a hollow sleeve on the lower end of the crutch, a longitudinally divided sleeve of uniform diameter telescopically insertible therein, and a resilient tip of uniform diameter throughout its length insertible in and longitudinally adjustable in said divided sleeve, substantially as set forth.

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

CHAUNCEY P. ROGERS, JR.

Witnesses:

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