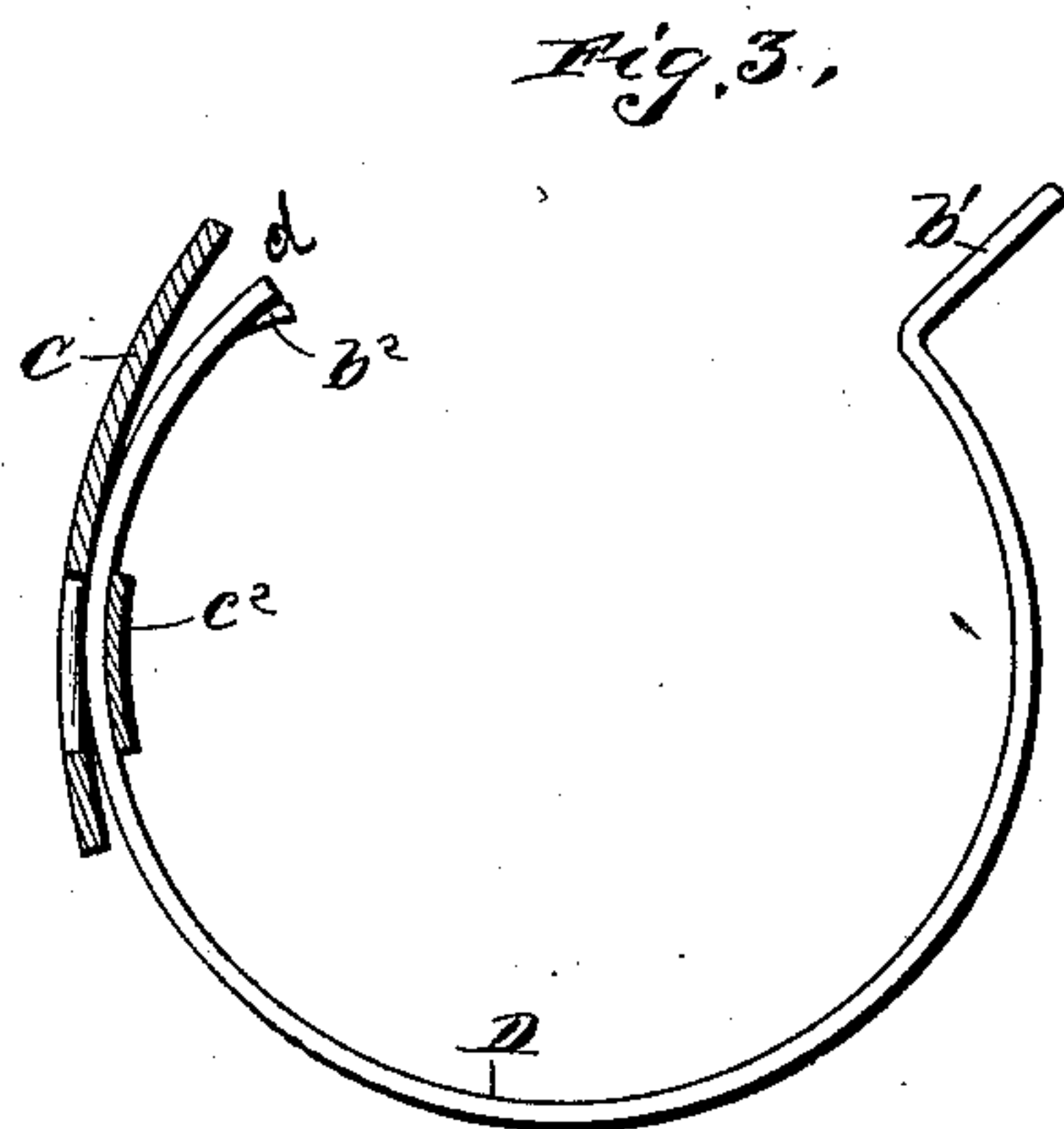
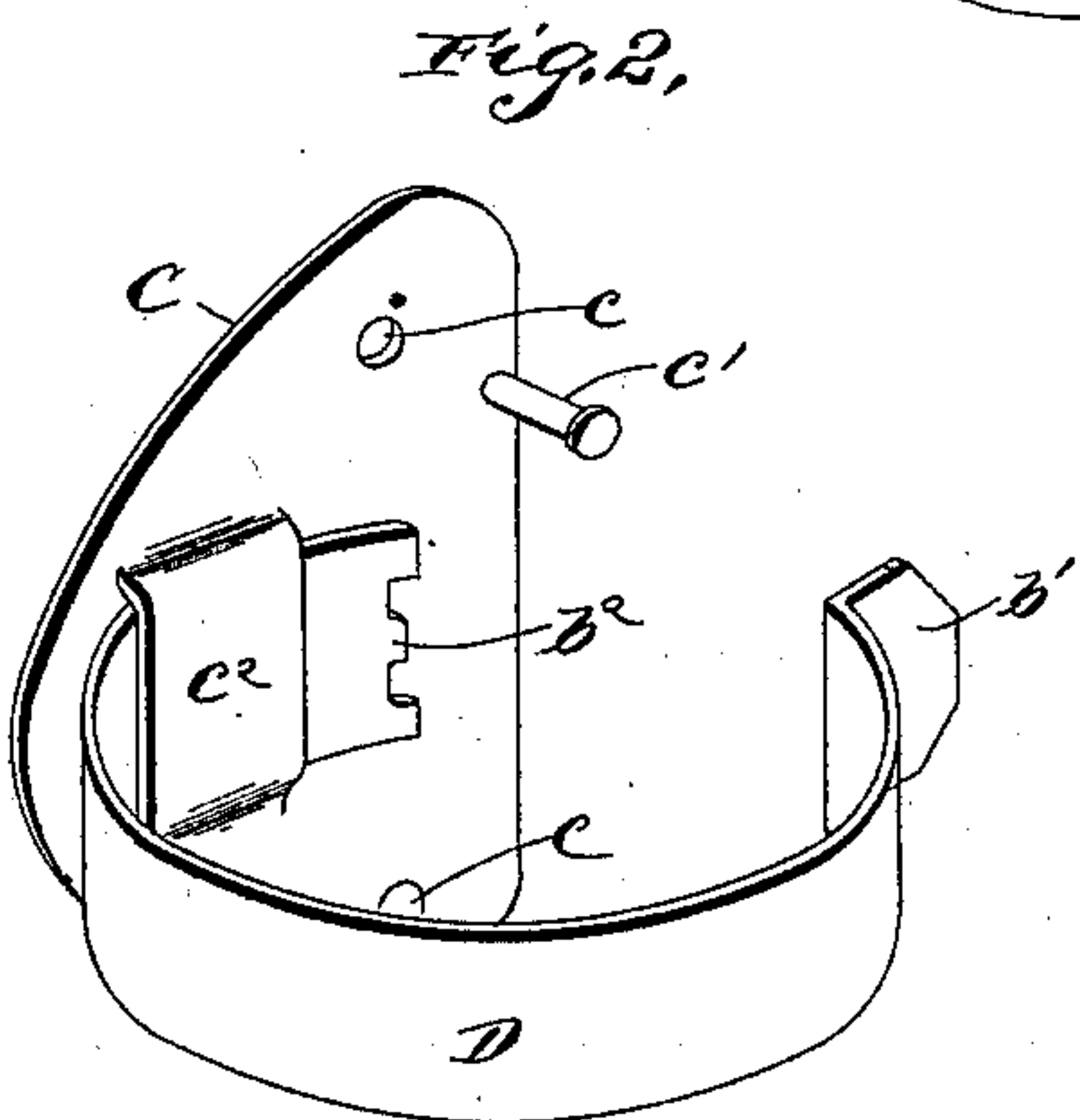
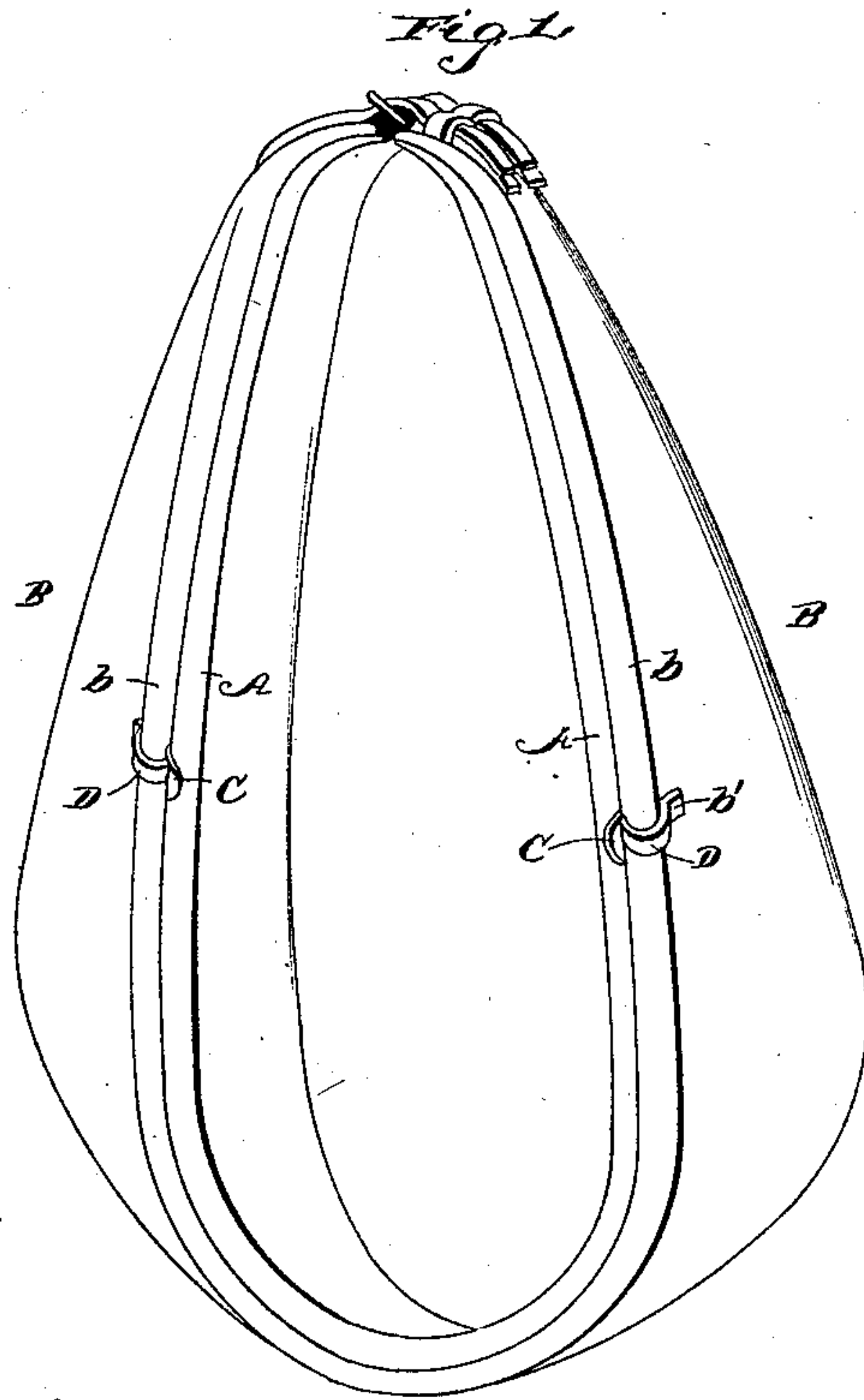


(No Model.)

F. S. DERR.
SWEAT PAD HOOK.

No. 364,808.

Patented June 14, 1887.



Witnesses

C. L. Taylor

C. S. Hoyer

Inventor
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UNITED STATES PATENT OFFICE.

FULLER SHANAFELT DERR, OF TURBOTVILLE, PENNSYLVANIA.

SWEAT-PAD HOOK.

SPECIFICATION forming part of Letters Patent No. 364,808, dated June 14, 1887.

Application filed April 6, 1887. Serial No. 233,945. (No model.)

To all whom it may concern:

Be it known that I, FULLER SHANAFELT DERR, a citizen of the United States, residing at Turbotville, in the county of Northumberland and State of Pennsylvania, have invented a new and useful Improvement in Sweat-Pad Hooks, of which the following is a specification.

My invention relates to sweat-pad-attaching hooks; and it consists in the construction and arrangement of the same, which will be more fully hereinafter described, and pointed out in the claims.

The object of my invention is to provide a sweat-pad-attaching hook which is readily attachable and detachable to and from the front roll of the collar, and which is simple and effective in its construction, strong and durable, readily applied in connection with the sweat-pad, positive in its results, and cheaply manufactured. I attain this object by the device illustrated in the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, and in which—

Figure 1 is a perspective view of a horse-collar and sweat-pad secured together by means of my improved hook or clasp. Fig. 2 is a detail view in perspective of my improved attaching-hook. Fig. 3 is a longitudinal vertical section of the hook and plate.

A indicates a sweat-pad, of any preferred form of construction, and B the ordinary form of horse-collar, having the front roll, *b*.

To the outer lower end of each side of the sweat-pad A, I attach my improved hook by means of a base-plate, C, having apertures *c* in each end thereof, through which rivets *c'* are inserted, and pass through the sweat-pad and are secured or headed over in the usual manner. This base-plate C is constructed of iron, of suitable curvature and configuration to adapt its ready attachment and the operation of the part in connection therewith. To one side of this plate C a loop, *c'*, is struck up therefrom and integral therewith. This loop-plate *c'* is slightly raised above the top surface of the plate C, and receives a circular steel spring, D, which passes therethrough, and is adapted to have free movement therein. The spring D is constructed of circular form, having an open side, as shown in Fig. 2, the one end of which opening is provided with a struck-up

projection, *b'*, extending outward from the main body of the spring D at right angles thereto. The opposite end of the opening or of the spring is formed with an upwardly-projecting lip, *b'*, which is constructed by cutting away a portion of the metal, leaving a central tongue or lip which is slightly flared or bent upward. After the spring D has been inserted in the loop *c'* of the plate C the lip *b'* of the spring D is then flared upwardly, as just described, and prevents the disengagement or removal of the said spring B from connection with the loop *c'*. The other end, *b'*, of the spring D, by means of its angular projection, prevents a disengagement of the spring B from the loop *c'* at this point.

It will be observed that when the spring D is revolved or turned as far as the lip *b'* will permit the end *d* of the spring will be drawn closer toward the plate C; but, as shown in Fig. 3, if the said spring D is revolved or turned through the loop *c'*, the full opening of the spring D will be obtained and rendered accessible for use.

When these hooks have been secured in connection with the sweat-pad A, as above described, the operation and manner of connecting the said pad and horse-collar B together by means of a hook will be as follows: The hook or spring D, or, as above described, the elastic spring, is revolved or turned through the loop *c'* until the opening thereof is clear. By grasping the projecting end *d* of the said spring D the spring may then be readily drawn over the roll *b* of the collar, and when it shall have fully become engaged therewith withdrawn around in the channel in the rear portion of the said roll *b*, and, as heretofore described, the distance between the said projecting end *d* and the edges of the plate C adjacent thereto will be decreased, and a binding between the spring D and the said roll *b* of the collar B will take place, and the sweat-pad and collar will be securely attached to each other. When the projecting portion *d* of the spring D has been turned so as to engage with the channel in the rear of the front roll, *d*, of the collar B, it will be retained and secured in that position by the hame, which passes over and bears against the same and presses it in contact with the pad. When it is desired to disconnect or detach the sweat-pad from con-

nection with the collar, the projection d is shoved backward, which revolves the spring D in the loop c^2 , and again brings the largest opening of the said spring around under the front roll of the collar, when the hook may be readily removed therefrom.

It will be understood that varying sizes of the hook will be constructed to adapt it to be connected to varying sizes of collar and rolls b .

10 It will be further seen that my improved sweat-pad-attaching hook may be used for attaching sweat-pads either to the collars or harness saddles, or to any other portion of harness to which it is applicable for use.

15 The novelty, utility, and adaptability of my improved sweat-pad-attaching hook is evident, and it is obvious that many minor changes or variations in its form of construction could be made without departing from its nature and principle of operation.

20 Having thus described my invention, I claim—

1. As an improved article of manufacture, a sweat-pad-attaching hook consisting of a base-plate, C, having a loop, c^2 , integral therewith, and an elastic spring, D, engaging with and moving in said loop, substantially as described. 25

2. In a sweat-pad-attaching hook, the combination of the base-plate C, having a loop, c^2 , struck therefrom and integral therewith, a curved spring, D, having an opening in one portion thereof adapted to be diminished in size by a revolution of the said spring, the projecting end d , and the upwardly-flared lip b^2 , substantially as and for the purposes specified. 30 35

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FULLER SHANAFELT DERR.

Witnesses:

E. H. HORNER,
B. F. FISHER.