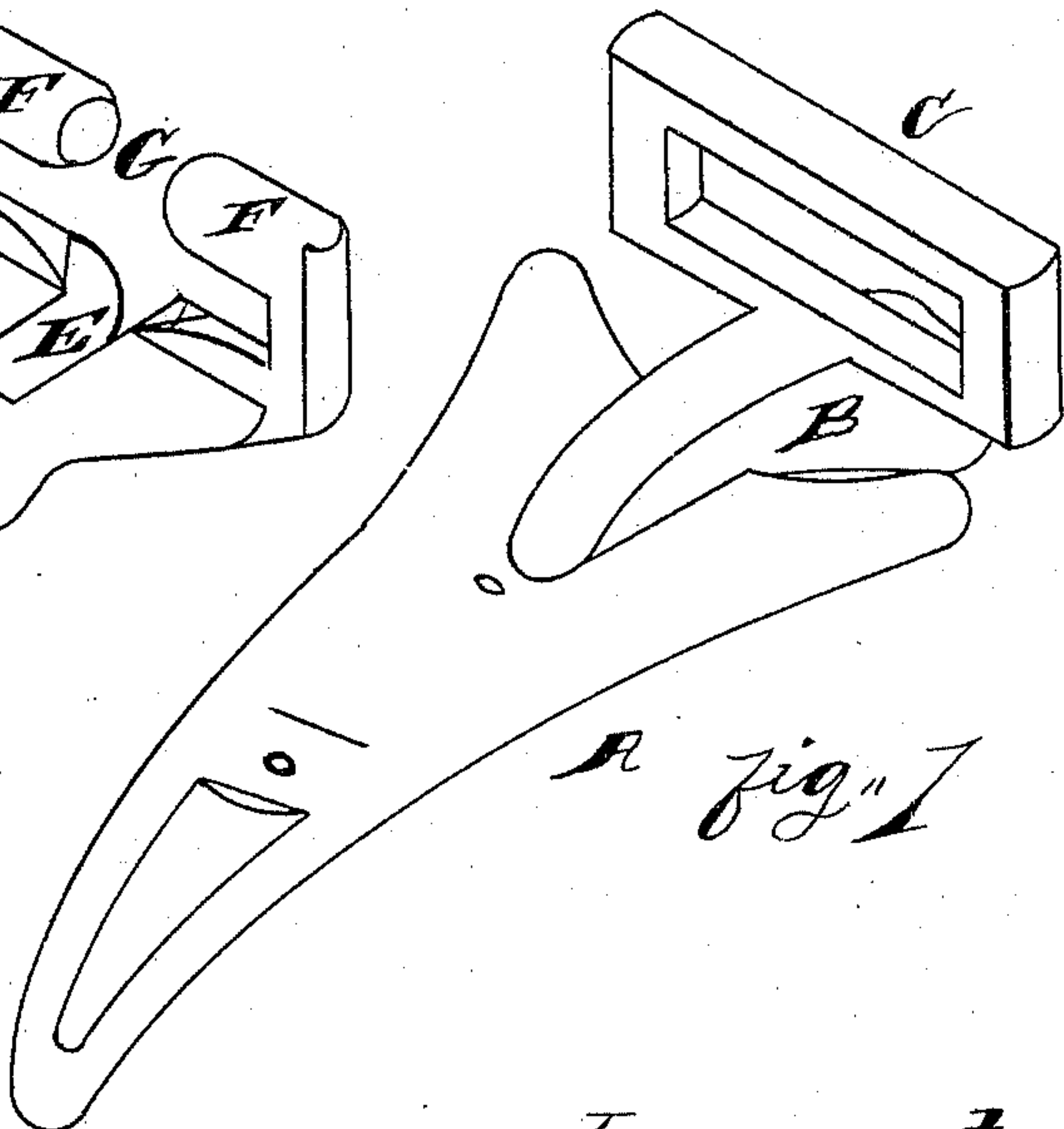
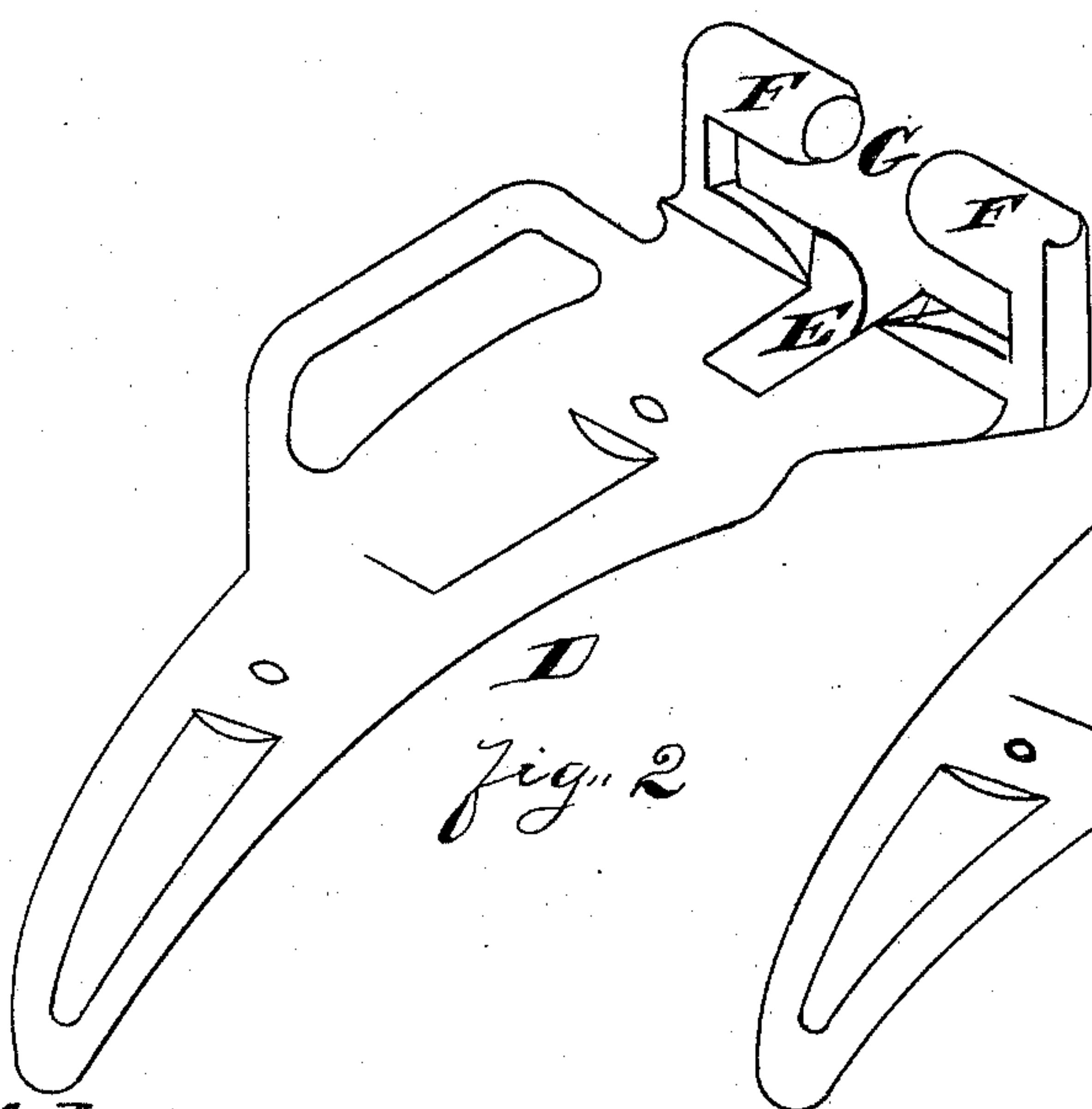
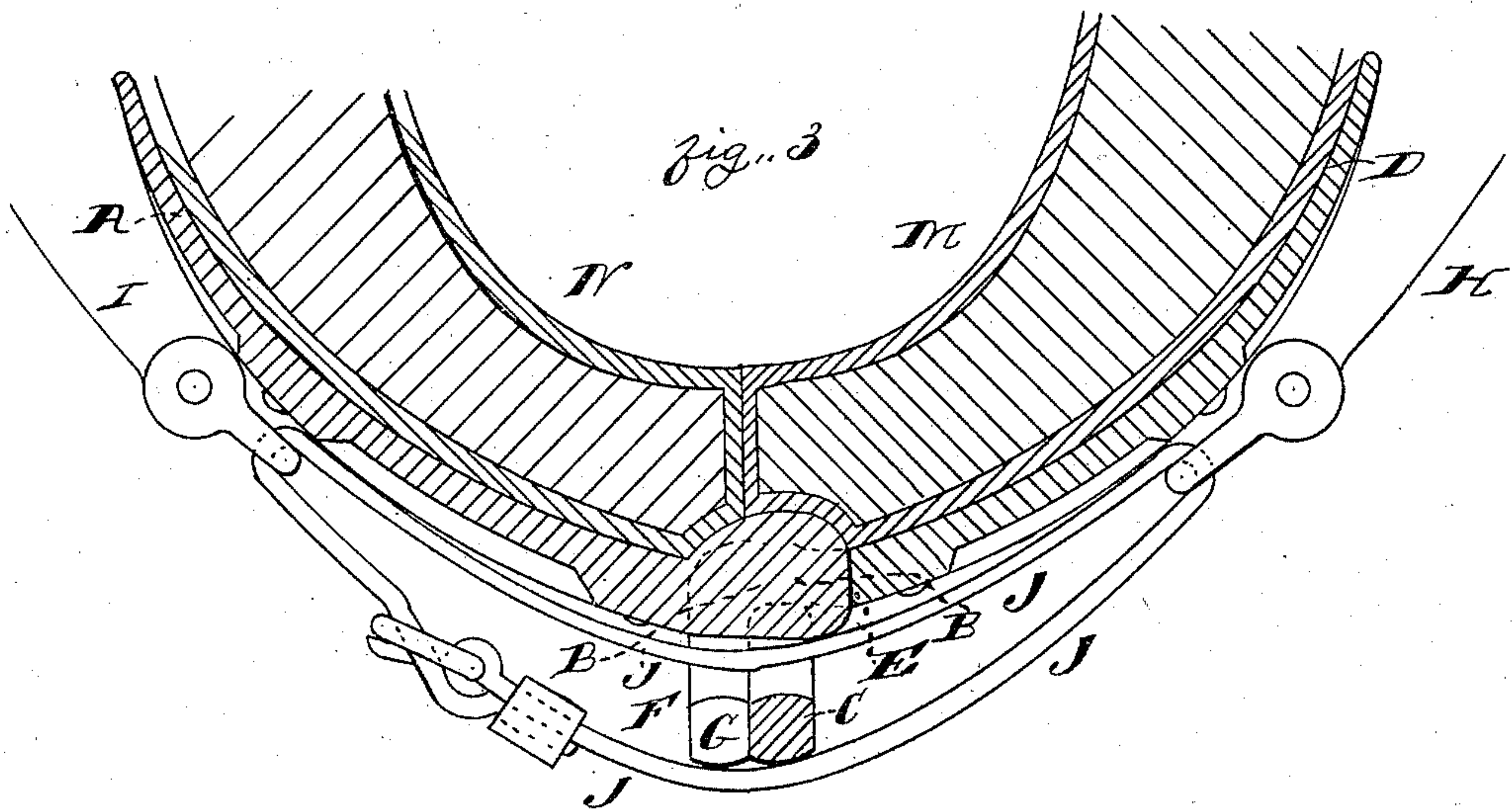


(No Model.)

E. E. ARMSTRONG.  
HORSE COLLAR FASTENER.

No. 474,712.

Patented May 10, 1892.



Witnesses  
Henry B. Lothrop  
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# UNITED STATES PATENT OFFICE.

EDWIN E. ARMSTRONG, OF DETROIT, MICHIGAN.

## HORSE-COLLAR FASTENER.

SPECIFICATION forming part of Letters Patent No. 474,712, dated May 10, 1892.

Application filed August 17, 1891. Serial No. 402,915. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN E. ARMSTRONG, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Couplings for Horse-Collars, of which the following is a specification.

My invention consists in an improvement in couplings intended principally for use on horse-collars, though it may be used for any purpose for which it is suitable.

Figures 1 and 2 are perspectives of the two parts of the coupling. Fig. 3 is a section through a portion of a horse-collar, with the coupling attached thereto, and showing the coupling locked and the hames in place.

Fig. 1 represents the male part of the coupling, consisting of a tang of cast or wrought metal A, of proper shape and size for the use to which it is to be applied. For use in horse-collars, it is made, as shown, slightly concaved on one side, this being the upper side in use and in Figs. 1 and 2 and somewhat convex on the other side. The size and shape will of course vary with the uses to which the coupling is to be applied. On the tang A is secured a projecting tongue B, which carries a box-loop or keeper C. The female portion of the coupling has a tang D, shaped like the tang A, and carries on its end a box-loop or keeper F, which is, however, slotted in its center, as shown at G, to permit the passage of tongue B, and in the end of the tang D is formed a slot E to receive the tongue B.

In Fig. 3, N and M represent a portion of the two sides with the respective portions of the coupling secured thereto and projecting therefrom. The collar may be flexible at its upper part or may be made in two halves secured at the top by straps, this feature forming no part of my invention. I and H represent the lower end of the hames ordinarily used with horse-collars, and J represents the hame-strap having a buckle of usual con-

struction. The coupling is secured to the collar by fastening the tangs A and D on the two parts of the collar, respectively, and securing them in place by rivets or screws.

The operation of my invention as applied to a horse-collar is as follows: The collar having been placed over the neck of the animal, the male part A of the coupling is passed over the female part D until the tongue can be and is passed down through the slot G into the slot E, when the two loops or keepers C and F interlock, thus preventing the separation of the coupling longitudinally, while the engagement of the tongue B with slot E prevents lateral vibration. The hame-strap A is now passed through the keepers C and F and buckled in position, thus locking the coupling firmly in place and preventing its becoming unintentionally separated. If desired, a loop for the collar-strap may be formed on one of the parts of the coupling, as shown at P, Figs. 2 and 3.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A coupling consisting of a tang having thereon a tongue carrying a box-loop, another tang carrying thereon a split box-loop and having a slot to receive the tongue on the other part of the coupling, said box-loops being adapted to receive a hame-strap, substantially as shown and described.

2. In a coupling for horse-collars, the male member A, having thereon the tongue B, the box-loop C, and the female member D, having thereon the loop F, with the aperture G formed therein, and having therein a slot E to receive the tongue B, said loops being adapted to receive a hame-strap, substantially as shown and described.

EDWIN E. ARMSTRONG.

Witnesses:

HENRY B. LOTHROP,

GERTRUDE H. ANDERSON.