

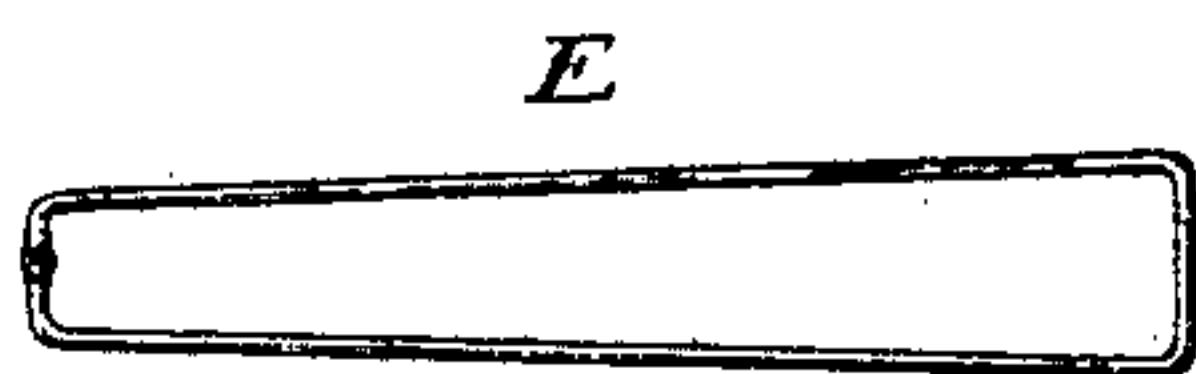
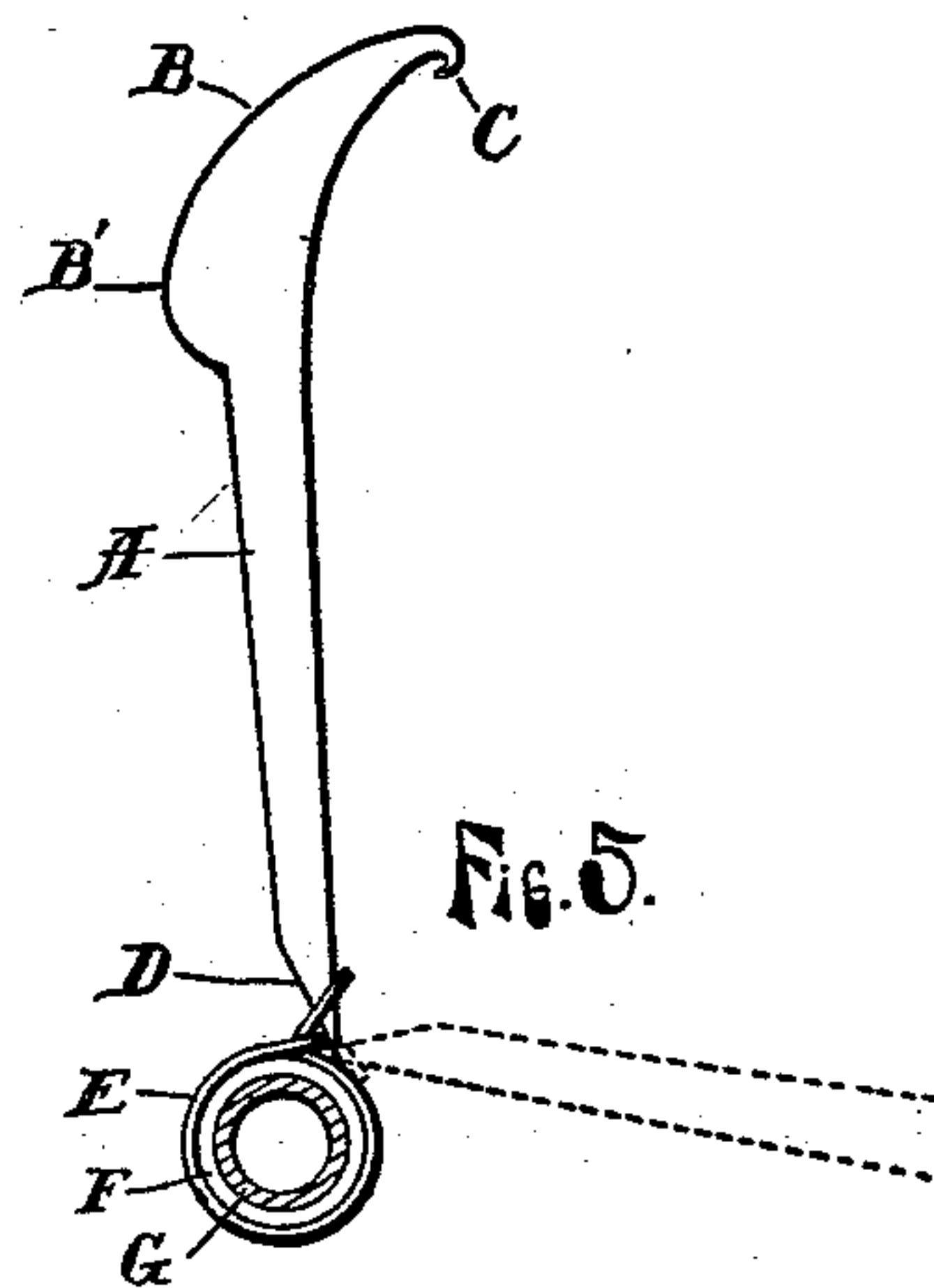
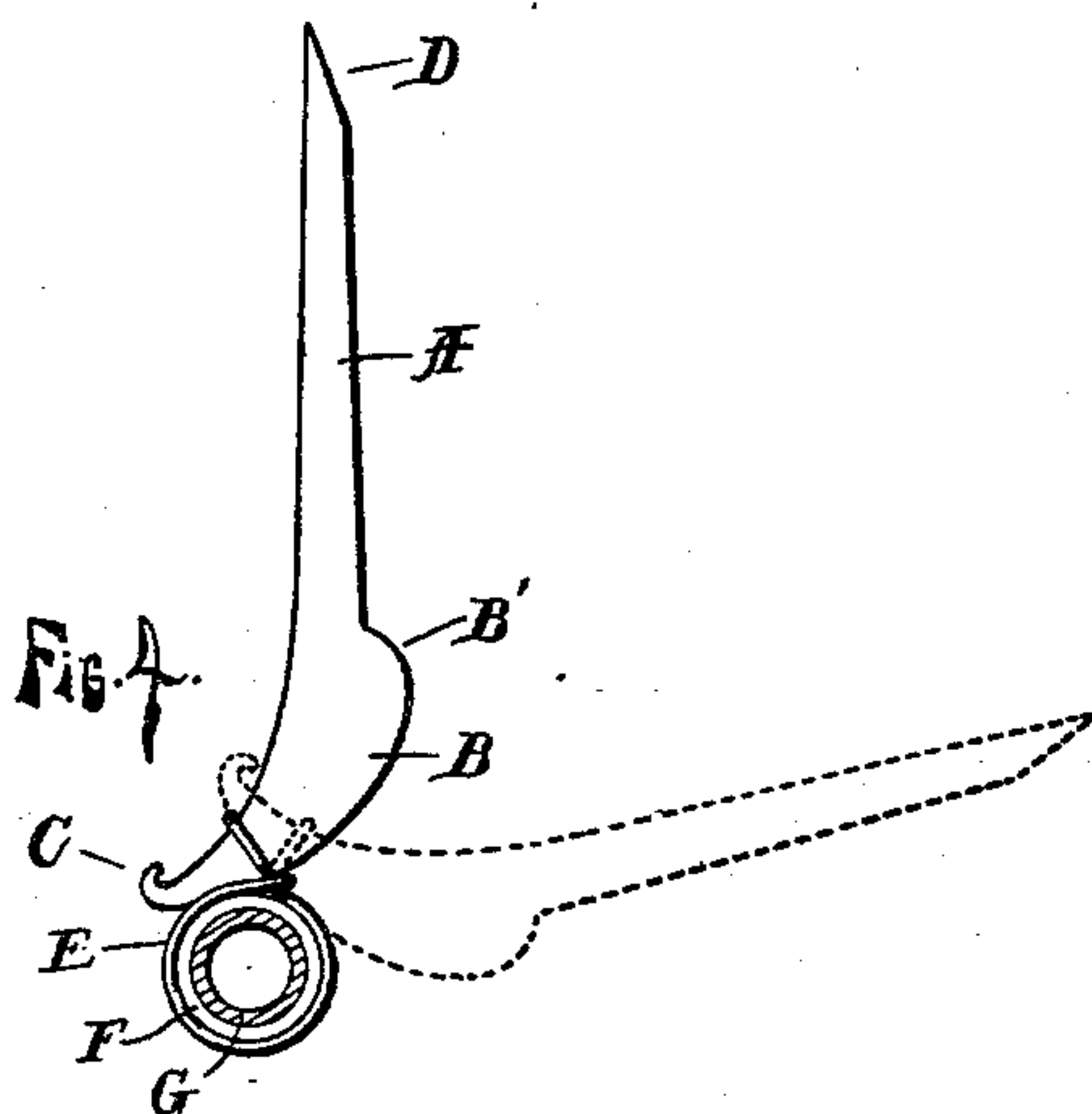
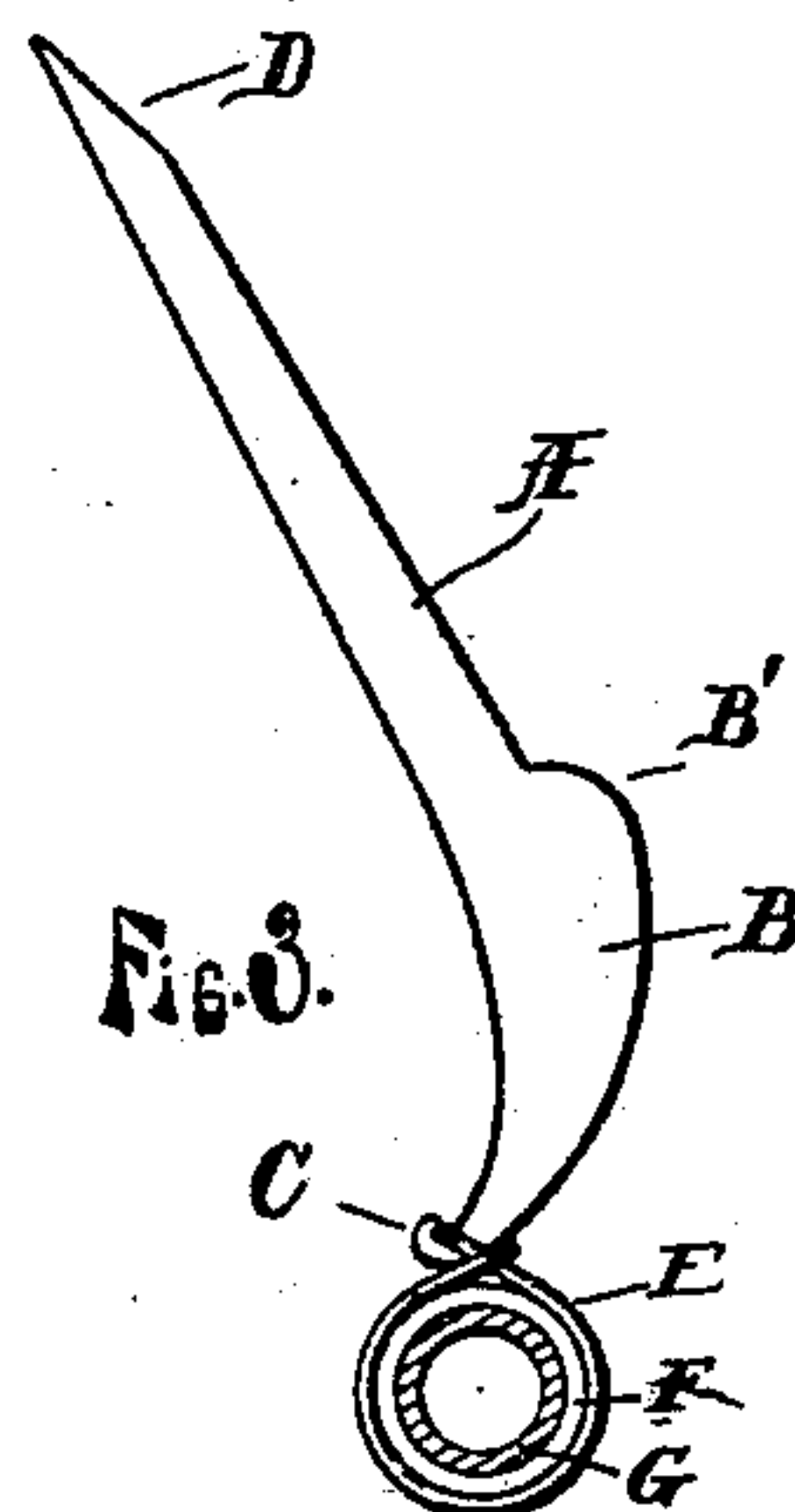
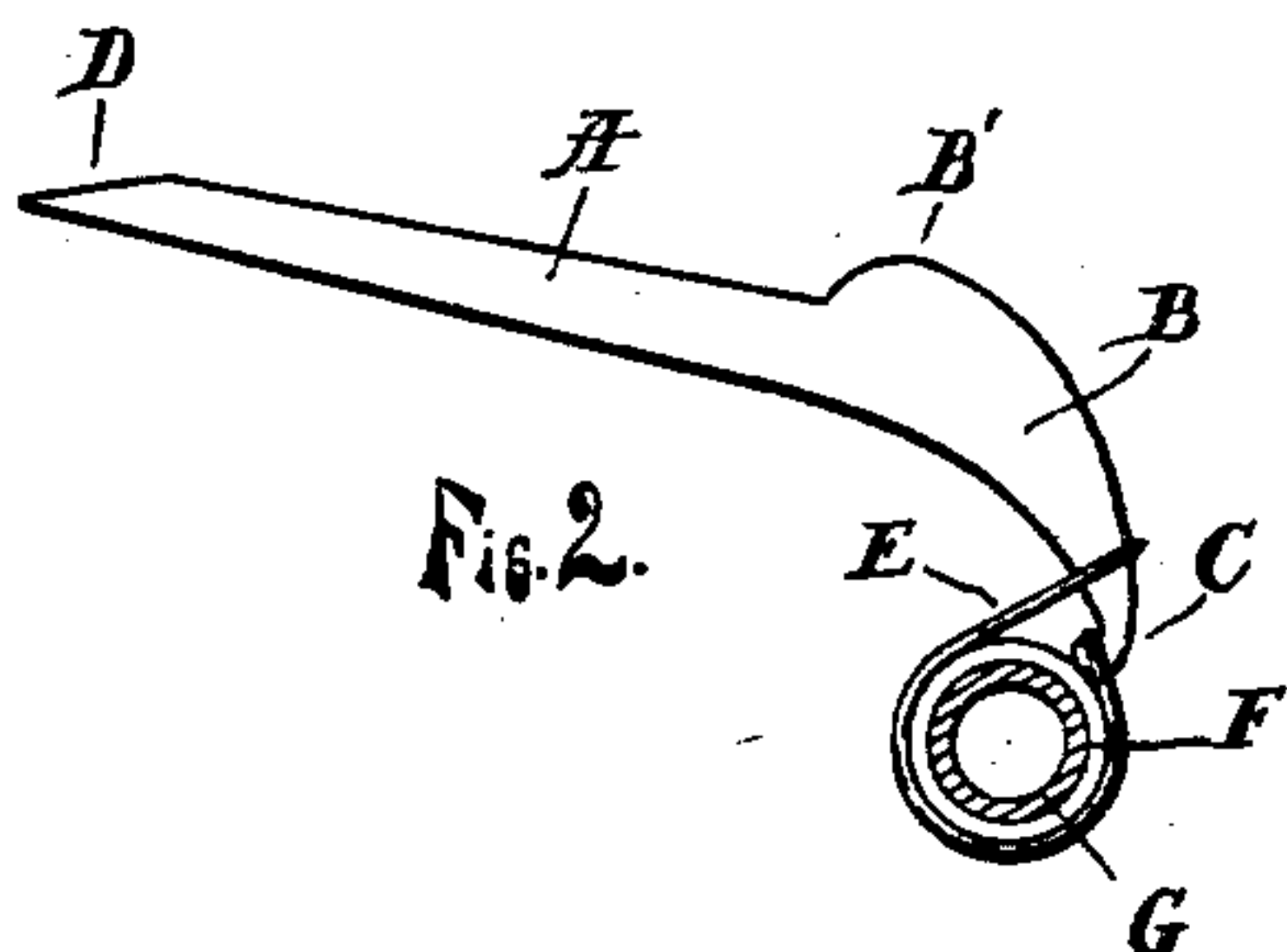
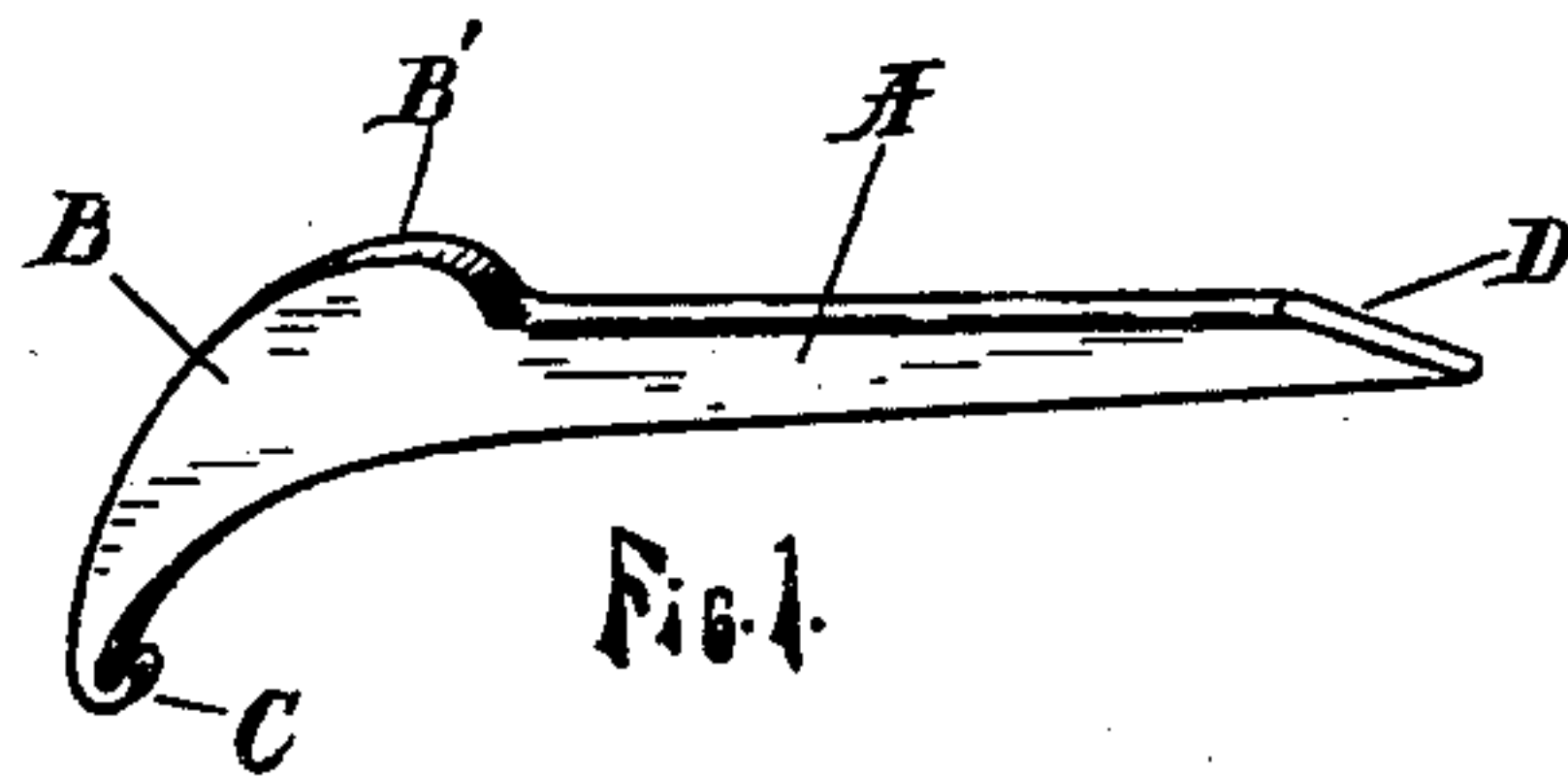
No. 625,492.

Patented May 23, 1899.

T. DE LANEY.  
TOOL FOR ATTACHING BANDS TO HOSE.

(Application filed Feb. 20, 1899.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

THOMAS DE LANEY, OF GRAND RAPIDS, MICHIGAN.

## TOOL FOR ATTACHING BANDS TO HOSE.

SPECIFICATION forming part of Letters Patent No. 625,492, dated May 23, 1899.

Application filed February 20, 1899. Serial No. 706,109. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS DE LANEY, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Tools for Attaching Bands to Hose; 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.

My invention relates to an improved tool for attaching bands to hose, and more especially for attaching bands made of wire to garden-hose; and its object is to provide a cheap and efficient implement for the purpose and to provide the device with certain new and useful features hereinafter more fully described, and particularly pointed out in the claims.

My device consists, essentially, of a single integral piece of metal, either cast, forged, or cut out with dies, as most convenient, and having a hook to engage the wire band, a cam portion to tighten the same, and a wedge-shaped or pointed end to turn the end of the band down, as illustrated in the accompanying drawings, in which—

Figure 1 is a perspective of my device; Fig. 2, the same engaged with the band, as in the first step of attaching the same; Fig. 3, the same in the second position; Fig. 4, the same in the third position; Fig. 5, the final position of the device in the process of attaching the band, and Fig. 6 a plan of the band for the application of which the device is adapted.

Like letters refer to like parts in all of the figures.

A represents the handle portion of the device, which may be of any convenient shape, at one end of which is a curved cam-shaped extension B, having a rounded heel B' at its junction with the handle, (which heel portion can be used as a hammer for finally pounding the end of the band down in place,) and terminating at its point in a hook C, adapted to engage and retain the end of the band and pull the same through the other end, as illustrated in Figs. 2 and 3. The opposite end of the handle portion A is pointed, as at D, and

preferably wedge shape to insert in the small end of the band and finally tighten the same and turn it down upon the hose, as illustrated in Fig. 5, and also to thrust under the end and raise it for removing the band from the hose, as occasion may require.

E represents the band, made of wire joined at the ends in the form of an elongated link with substantially square ends and slightly-converging sides, the narrower end being adapted to pass through the wider end and be folded down about the same.

F is an end view of the hose to which the band E is applied, and G a transverse section of a coupling secured in the hose by the band E.

From the various figures the operation of my device will be readily understood. The band is first wrapped loosely around the hose F, having the coupling G inserted therein, the cam B passed through the wider end of the band with the convex side thereof engaging the same, and the hook C engaging with the narrow end of the band. By turning the handle upward and sliding the wider end of the band toward the hose the narrow end of the band is pulled through the wide end thereof, as in Fig. 3. To further tighten the band around the hose, the cam is pressed forward into the narrow end of the band and by vibrating the device it will operate to tighten the band, acting as a lever to pull the band through the wider end and taking up the stock so gained by the forward movement of the cam. By turning the tool to the position shown in dotted lines in Fig. 4 the band is further tightened and bent closely around the wider end sufficiently to prevent slipping, and the narrow end is finally turned down upon the hose by reversing the tool and inserting the end D in the end of the band and turning the same to the position shown in dotted lines in Fig. 5. The wire may then be finally hammered down closely by striking it with the heel B' of the cam. To raise the narrow end of the band and unfasten the same, the wedge end D is inserted under the same and the device operated as a lever to lift it away from the side of the hose.

Having thus fully described my invention,



what I claim, and wish to secure by Letters Patent, is—

1. A tool substantially as described, having a handle portion, a cam portion, and a hook  
5 at the point of the cam portion.

2. A tool substantially as described, consisting of a handle portion having a pointed end and a cam-shaped portion at the opposite end, and a hook on the end of the cam-shaped portion.  
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3. A tool substantially as described, consisting of a handle portion terminating in a wedge-point at one end, a curved cam-shaped portion

at the other end, and a hook on the point of the cam-shaped portion. 15

4. A tool substantially as described, consisting of a handle portion having a wedge-shaped end and a curved cam-shaped end having a rounded heel adjacent to the handle portion, and a hook on the point of the cam-shaped end. 20

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

THOMAS DE LANEY.

Witnesses:

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LUTHER V. MOULTON.