

(No Model.)

W. W. ANNABLE.
CLAMP FOR TROLLEY WIRES.

No. 535,524.

Patented Mar. 12, 1895.

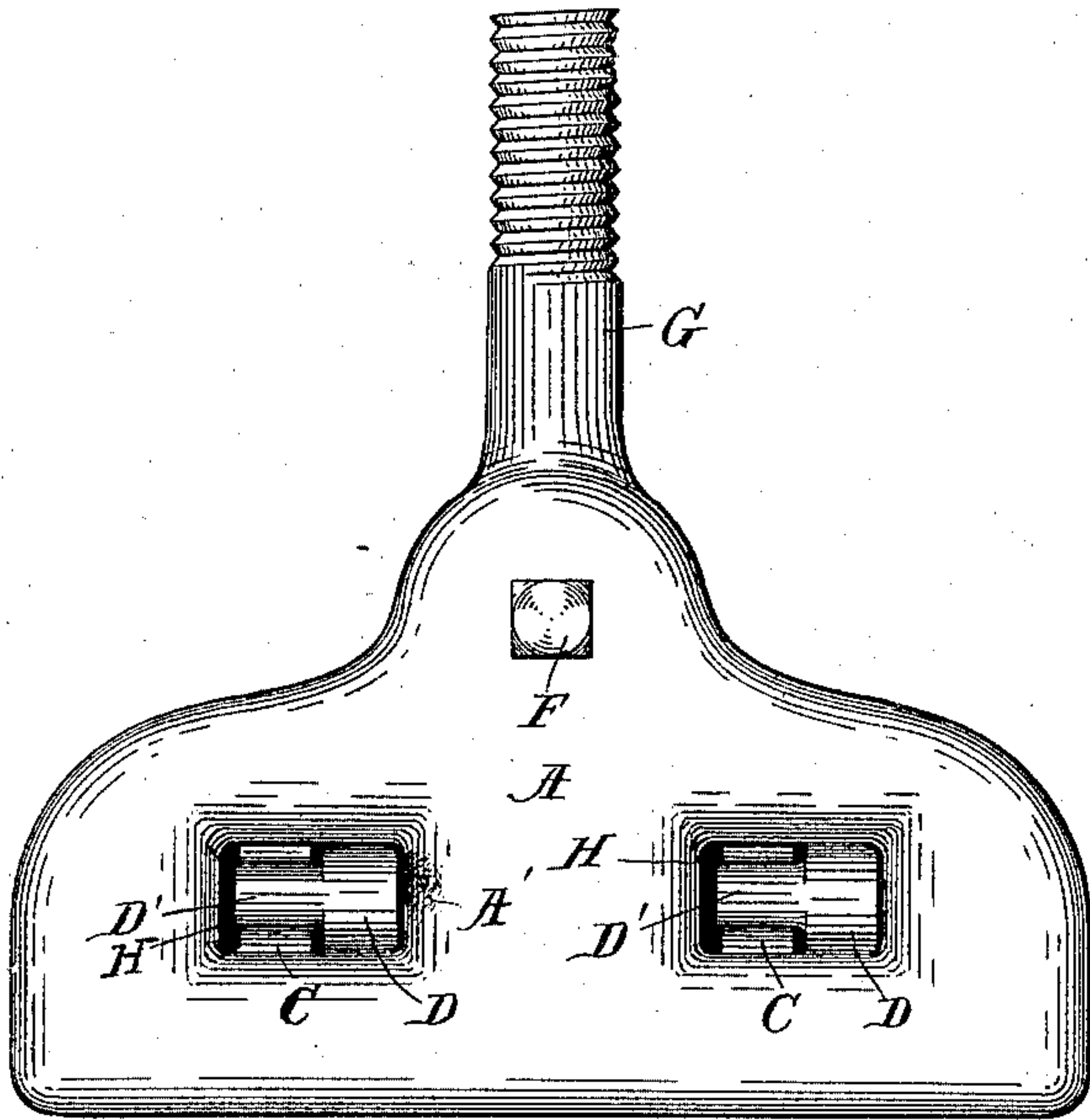


FIG. 1.

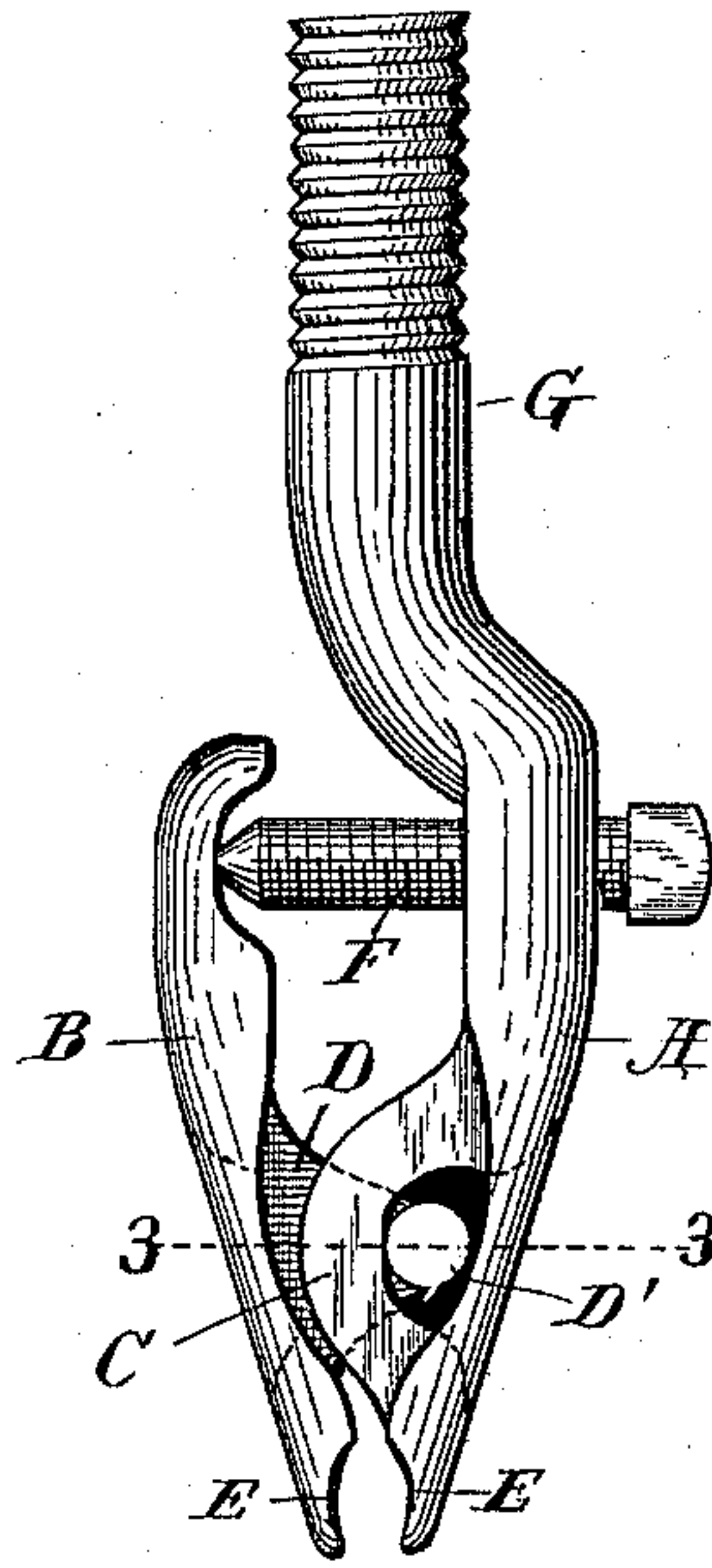


FIG. 2.

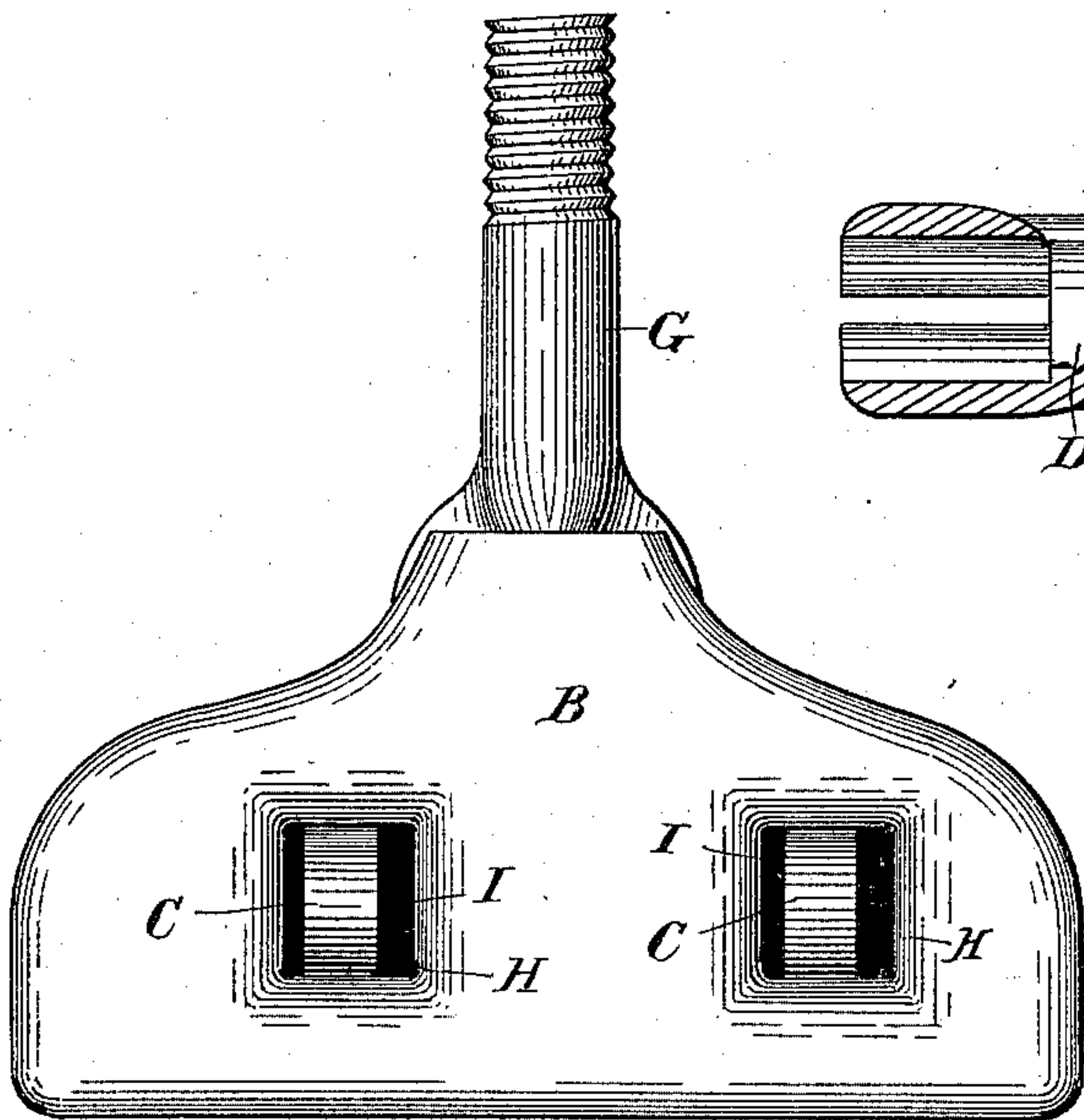


FIG. 4.

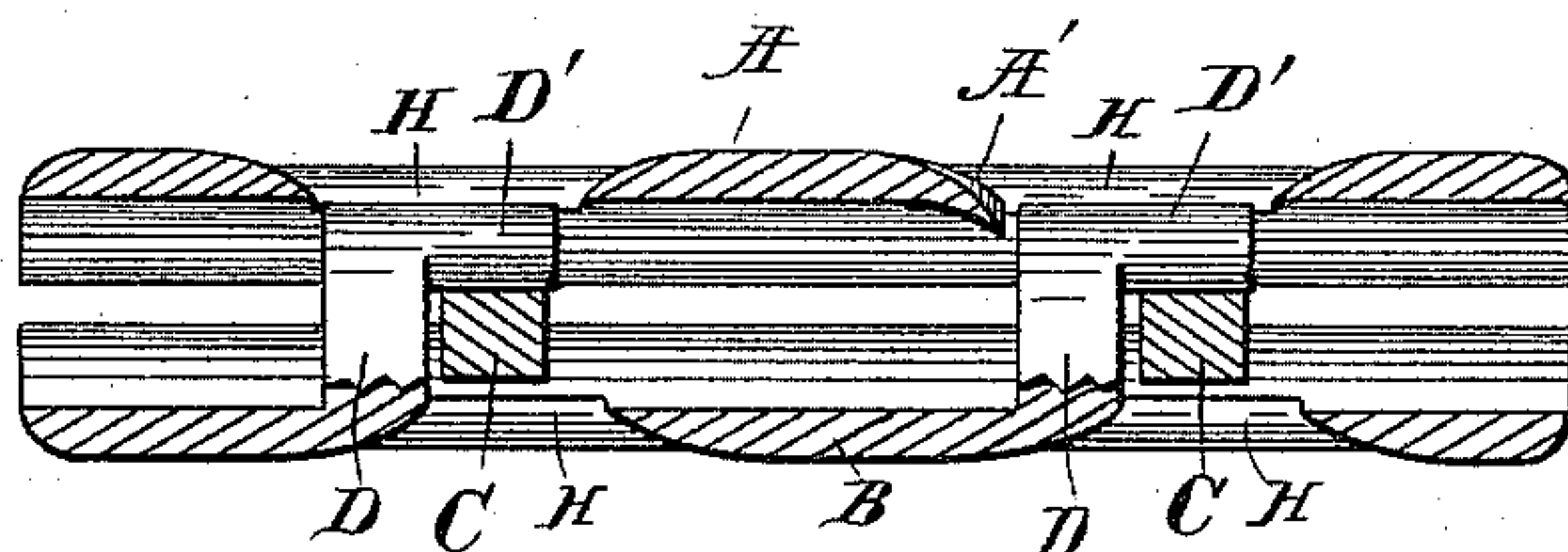


FIG. 3.

WITNESSES:

Louis C. Roman
Louis Moulton

INVENTOR

Warren W. Annable
BY

Luther V. Moulton
ATTORNEY.

UNITED STATES PATENT OFFICE.

WARREN W. ANNABLE, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF ONE-HALF TO THE BUTTERWORTH & LOWE, OF MICHIGAN.

CLAMP FOR TROLLEY-WIRES.

SPECIFICATION forming part of Letters Patent No. 535,524, dated March 12, 1895.

Application filed November 23, 1894. Serial No. 529,782. (No model.)

To all whom it may concern:

Be it known that I, WARREN W. ANNABLE, 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 Clamps for Electric Conductors; 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 clamp for electric conductors, and its object is to provide the same with certain new and useful features, hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a device embodying my invention. Fig. 2 is an end elevation of the same. Fig. 3 is a horizontal section of the same on the line 3—3 of Fig. 2; and Fig. 4 is a side elevation showing the side opposite to that of Fig. 1.

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

A and B are the respective jaws of the clamp, which are provided at their lower ends with opposing concave faces E, E, to engage the conductor, and support the same. Said jaws are hinged to each other at a suitable distance from their said lower ends by means of inwardly projecting loops C on one of said jaws, and corresponding inwardly projecting lugs D, which extend alongside of said loops and are provided with laterally projecting pintles D', which engage said loops, which latter are flattened on their concave faces, where engaged by said pintles to permit of relative adjustment of said jaws to enable the concave surfaces E, E, to properly engage the opposite sides of the conductor. The axis of the pintles D', and loops C are in a line parallel to the axis of the concave faces E, E, and opposite said loops and pintles are openings H in the respective plates to facilitate casting the same, and the edge of the plate forming the jaw A is bent inward by any suitable means at A' to engage the end of the lug D and secure the pintles and loops in interlocked position, and thus prevent their accidental separation. Said jaws A, B, are prolonged above their described attachment to

each other, and one of said jaws is provided with an upwardly projecting screw threaded stem G to attach the same to any suitable insulator and support. A screw F also passes through a suitable threaded opening in one of said jaws and engages the upper end of the other of said jaws, whereby the lower concave ends of the same are forced firmly in contact with and secured in place upon the opposite sides of the conductor.

By the described construction, I am able to provide a device that can be cheaply constructed, the jaws of which are easily hinged and secured to each other, without drilling, or machine work, and also a screw and lever clamping device that takes a very firm and secure hold of the conducting wire.

What I claim is—

1. In a clamp for electric conductors, a pair of jaws having concave lower ends and a screw to separate their upper ends loops on one of said jaws, and studs on the other of said jaws, said studs having laterally projecting pintles engaging said loops, substantially as described.

2. In a clamp for electric conductors, opposing jaws consisting of plates having concave lower ends, and inwardly projecting loops on one of said jaws, and inwardly projecting lugs on the other of said jaws, said lugs having laterally projecting pintles engaging said loops; one of said plates also having openings opposite said loops and lugs, and an inwardly bent portion to engage one of said lugs and prevent separation of said plates, and a screw adapted to close said concave jaws upon the conductor, substantially as described.

3. In a clamp for electric conductors, in combination with jaws having opposing concave ends to engage opposite sides of the conductor, means for adjustably hinging said jaws to each other, consisting of loops on one of said jaws having a portion of their concave sides flattened, and studs on the other of said jaws having laterally projecting pintles engaging said flattened portions, substantially as described.

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

WARREN W. ANNABLE.

Witnesses:

LUTHER V. MOULTON,
FRANK A. SIMONDS.