

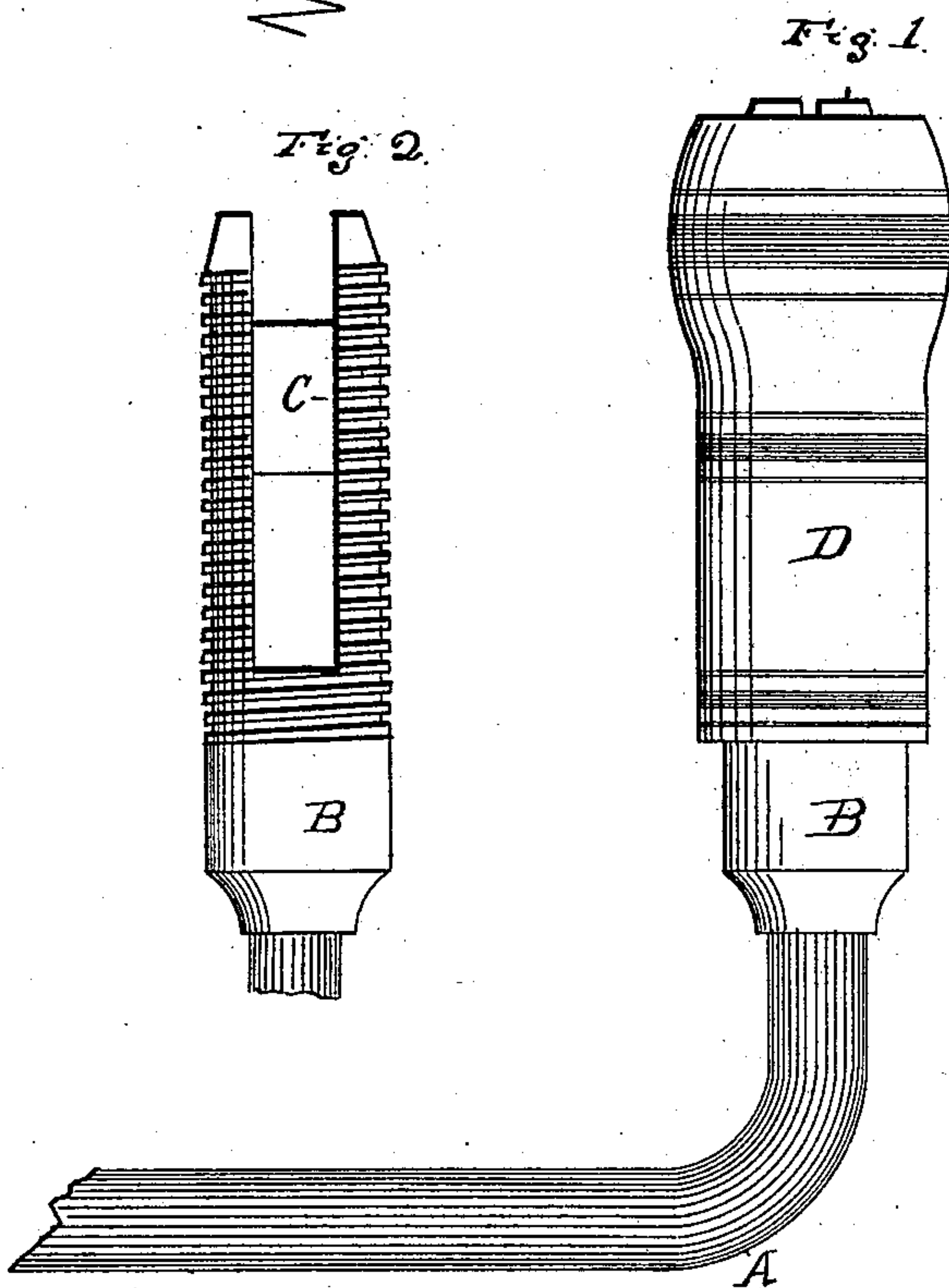
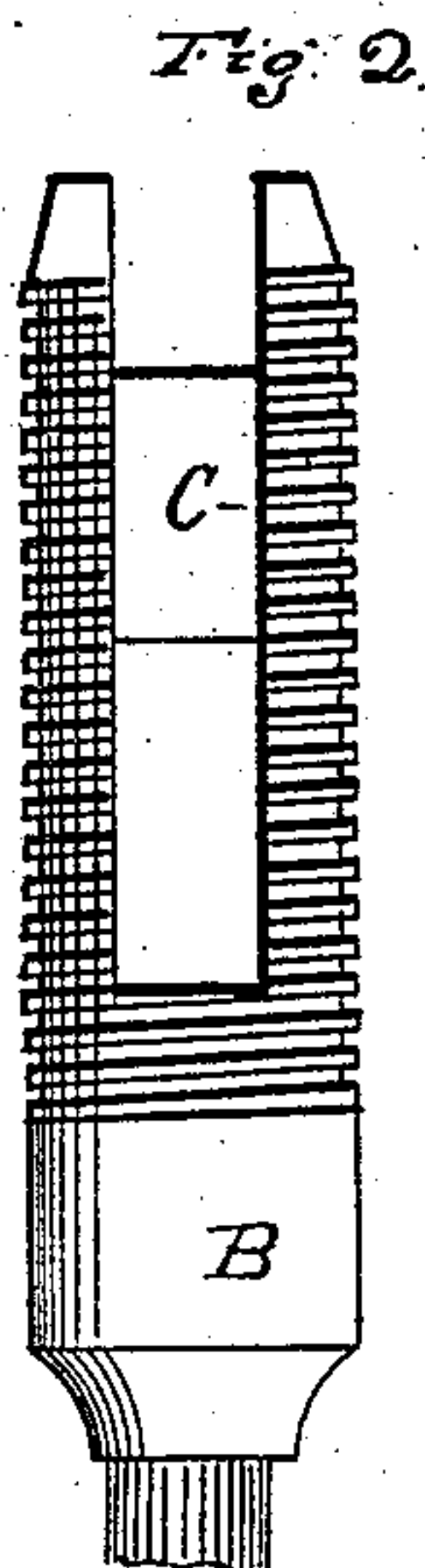
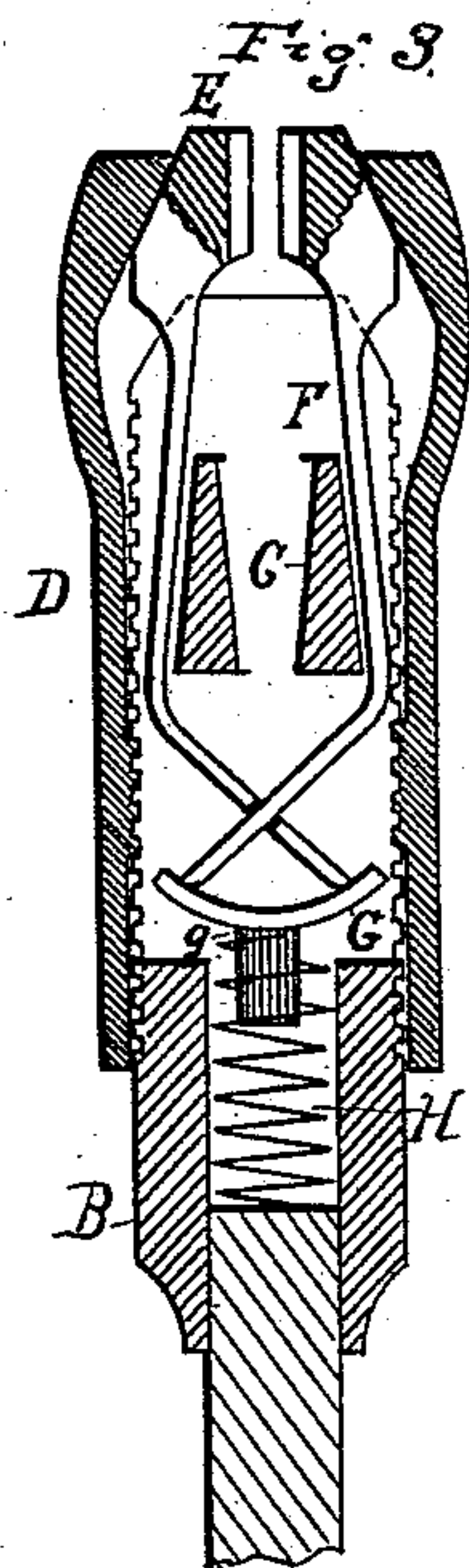
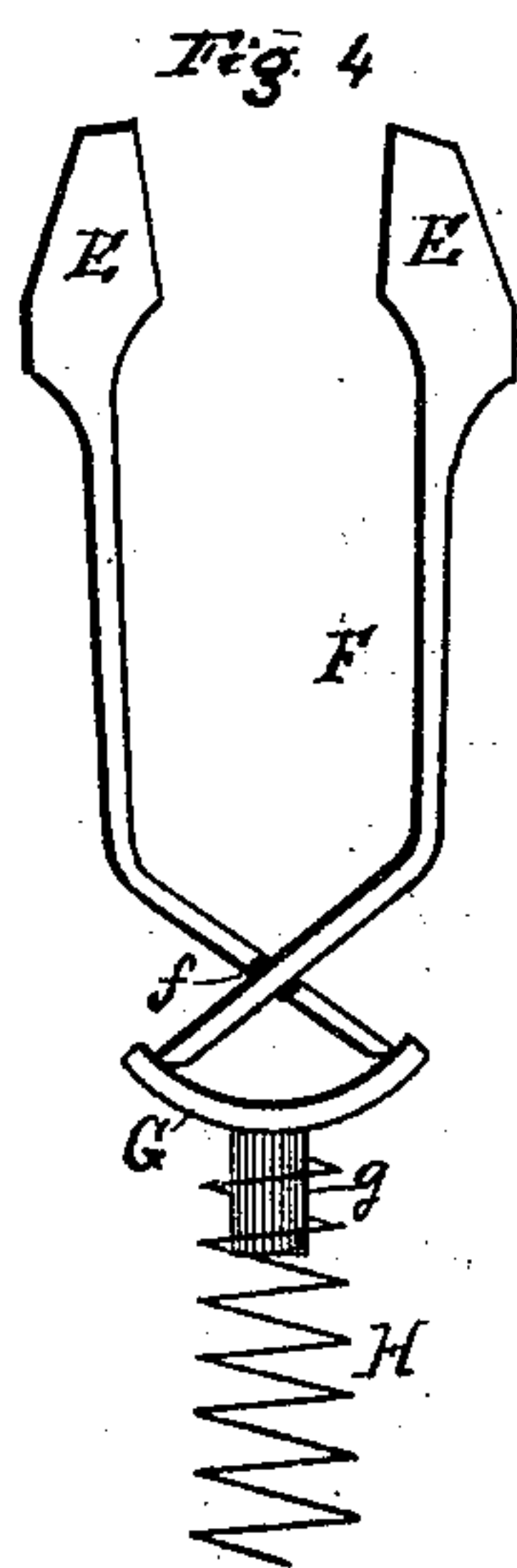
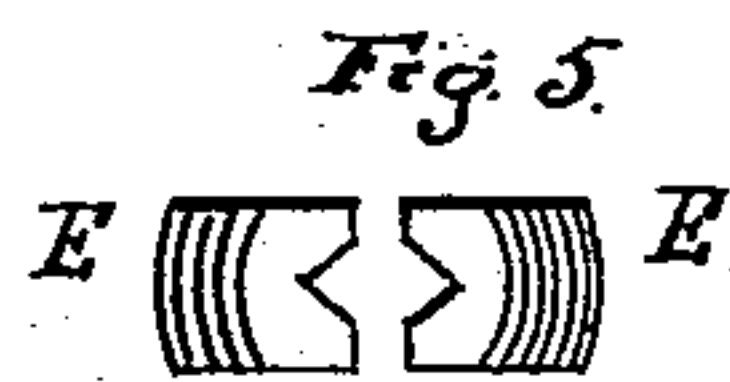
(No Model.)

W. J. BAYRER.

BIT STOCK.

No. 277,105.

Patented May 8, 1883.



Witnesses

Daniel S. Sturmy Jr.
Arthur G. Harkins

Inventor
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UNITED STATES PATENT OFFICE.

WILLIAM J. BAYRER, OF SOUTHLINGTON, CONNECTICUT.

BIT-STOCK.

SPECIFICATION forming part of Letters Patent No. 277,105, dated May 8, 1883.

Application filed March 17, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. BAYRER, a citizen of the United States of America, residing at Southington, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Bit-Stocks, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The object of my invention is to construct a bit-stock which shall be effective and easy of operation, and shall at the same time always maintain a firm grasp upon the bit. I accomplish this object by constructing the jaws of
15 said bit with bent ends or extensions, which ends or extensions cross each other near their upper extremities, and are pivoted or otherwise joined together at their point of intersection; also by other details of construction,
20 which will be hereinafter fully set forth.

In the drawings, Figure 1 represents a side view of my invention; Fig. 2, a detail view of the core of the stock; Fig. 3, a longitudinal cross-section of my invention; Fig. 4, a detail
25 view of the jaws; Fig. 5, an end view of same, and Fig. 6 a detail view of one of the ends of the aforesaid jaw ends or extensions.

Similar letters of reference indicate corresponding parts throughout the several views.

30 A represents a portion of the bit-stock handle, one extremity of which is secured to the core B. Said core is externally threaded for a portion of its length, and slotted in the ordinary manner. It is also provided with beveled cross-supports C. D is the head or shell
35 of the bit-stock, and is constructed in the ordinary manner with internal threads and conical mouth. E are the jaws, made separate, beveled at their outer extremities, and provided
40 with bent arms, ends, or extensions F. Said extensions are bent in opposite directions at obtuse angles some distance from their inner ends. At about half the distance between said bends and their inner ends said extensions intersect, and are pivoted or hinged in
45 that position. I do not confine myself to any particular method of hinging or pivoting the

same. In the drawings, portions *f* are shown cut away, and the aforesaid extensions are in a manner made to dovetail together. Within
50 the head D, and resting upon the inner ends of said extensions F, is a concave shoe, G, provided with a stem, *g*, about which is one end of a spiral spring, H. The main portion of
55 said spring is contained within a cavity formed in the upper part of the core B, and the free end of same rests against the end of the handle A.

The operation of my improved bit-stock is as follows: The lips of the jaws E being forced
60 backward within the mouth of the head D necessarily forces the upper ends of the extensions F against the concave spring-actuated shoe G. The resistance offered by said shoe
65 thus forces said ends apart, and the extensions being hinged or pivoted together, the jaws F are in their turn forced apart, and the tang of
70 the bit thus allowed to enter between said jaws. Said tang having entered to a sufficient distance within the jaws, the core B is screwed down within the head D, and the jaws there-
by given a rigid hold upon the bit-tang. In removing the bit this operation is, as a matter of course, reversed.

Having thus described my invention, what I
75 claim is—

1. In a bit-stock, the jaws E, made in two parts, the inner ends of which are made to intersect and cross each other and form short levers to spread the outer ends, the two parts
80 being held together by a joint at the place of their intersection, as shown and set forth.

2. In a bit-stock, the combination, with the jaws E, made in two parts, their inner ends intersecting and jointed at point of intersection,
85 of the spring-actuated shoe G, substantially as and for the purposes described.

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

WILLIAM J. BAYRER.

Witnesses:

GEORGE TERRY,
LEWIS W. TURNER.