

H. S. North,
Snap Hook.

N^o 68,781.

Patented Sep. 10, 1867.

Fig: 1

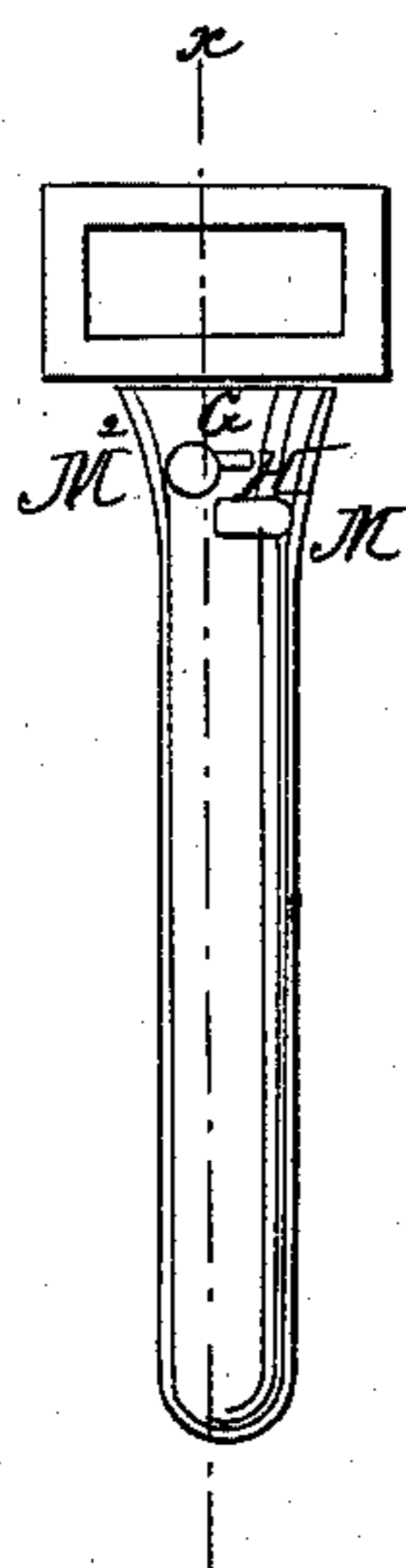
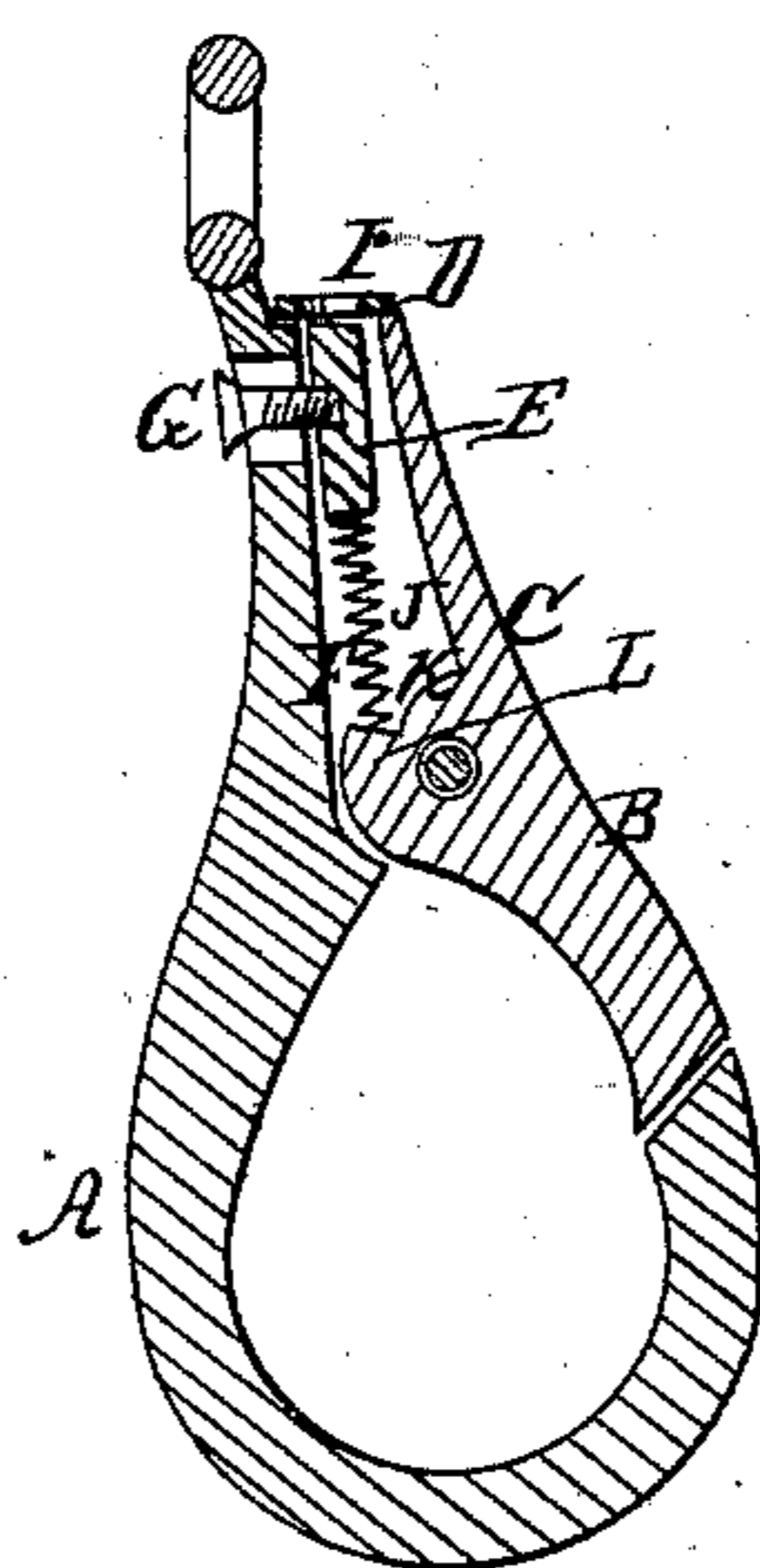


Fig: 2



Witnesses.
Thos. Fische
Wm. Fourn

Inventor
H. S. North
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United States Patent Office.

HENRY S. NORTH, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO HIMSELF,
W. DOUGLAS, AND B. DOUGLAS, OF THE SAME PLACE.

Letters Patent No. 68,781, dated September 10, 1867.

IMPROVED SNAP-HOOK.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, H. S. NORTH, of Middletown, Middlesex county, Connecticut, have invented new and useful Improvements in "Snap-Hooks;" and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention consists, first, in extending the rear end of the movable jaw to the hook beyond its axis or joint for forming an arm for a spring-bolt to pass through and lock it, which bolt is arranged to slide in the tail end to the fixed arm or jaw of the hook; second, in so constructing the movable jaw as to form a bearing upon it for the end of a spring suitably arranged within the fixed jaw to cause the movable jaw of the hook to close or shut; third, in so constructing the snap-hook and arranging a spring therein that one and the same spring will serve to throw the lock-bolt, and also to close the movable jaw; fourth, in so arranging and hanging the lock-bolt to the snap-hook that it can be drawn and held out of action, and thus enable the snap-hook to be used like the ordinary and common snap-hooks; fifth, in so arranging the bolt that when the hook-jaw is locked by it the bolt can be fastened so as not to operate, and thus its unfastening by accident avoided. In the accompanying plate of drawings my improved snap-hook is illustrated—

Figure 1 being a view of one edge of the same, and

Figure 2 a central section, taken in the plane of the line xx or in the direction of its length.

Similar letters of reference indicate corresponding parts.

A, in the drawings, represents the fixed arm or jaw of my improved snap-hook. B, the movable arm or jaw hung upon an axis or pivot at a to the fixed jaw A. This movable arm, by its portion C, is extended beyond its pivot, lapping over, by its piece D, the tail end to the fixed jaw. E, a bolt arranged in a suitable way, F, of the tail portion to the fixed jaw A, so as to be slid forward or backward therein by its headed pin G projecting through the slot H in the edge of such fixed jaw A. This bolt plays through the fixed jaw at its end where overlapped by the piece D of the extension to the movable jaw, and enters the hole I in said jaw-piece D for holding the said jaw to the hook closed. J, a spiral spring arranged in cut-out portion K of the fixed jaw A, wherein it bears by one end against the inner end of the bolt, and at its other against the shoulder L of the joint portion of the movable jaw B, and thus serves to both throw the bolt and to swing the movable jaw and hold it closed. The slot H is provided at each end with a side notch, M M², so that when the headed pin G is swung into the one, M, it will hold the bolt out of action, and thus allow the hook to be used and to operate as an ordinary snap-hook, and into the other, M², it will so fasten the bolt, when locked with the movable jaw, as to prevent the bolt from being then accidentally moved.

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

1. A snap-hook, having the rear end of the movable jaw extended beyond the axis or joint, in combination with a bolt, substantially as and for the purpose described.
2. In snap-hooks, a movable jaw, so constructed as to form a bearing for a spring arranged within the fixed jaw, substantially as described and for the purpose specified.
3. A snap-hook provided with a bolt for locking its movable arm or jaw, when such hook is so constructed and a spring is so arranged as to both throw said bolt and to close the movable jaw.
4. A bolt so arranged in combination with so constructing a snap-hook that it can be either secured in a position out of action or fastened, when locked in the movable jaw, or both, substantially as described.

The above specification of my invention signed by me this 29th day of March, 1867.

HENRY S. NORTH.

Witnesses:

JOHN L. S. ROBERTS,
WM. T. ELMER.