

(No Model.)

J. B. SARGENT.
MANUFACTURING SNAP HOOKS.

No. 251,297.

Patented Dec. 20, 1881.

fig 1

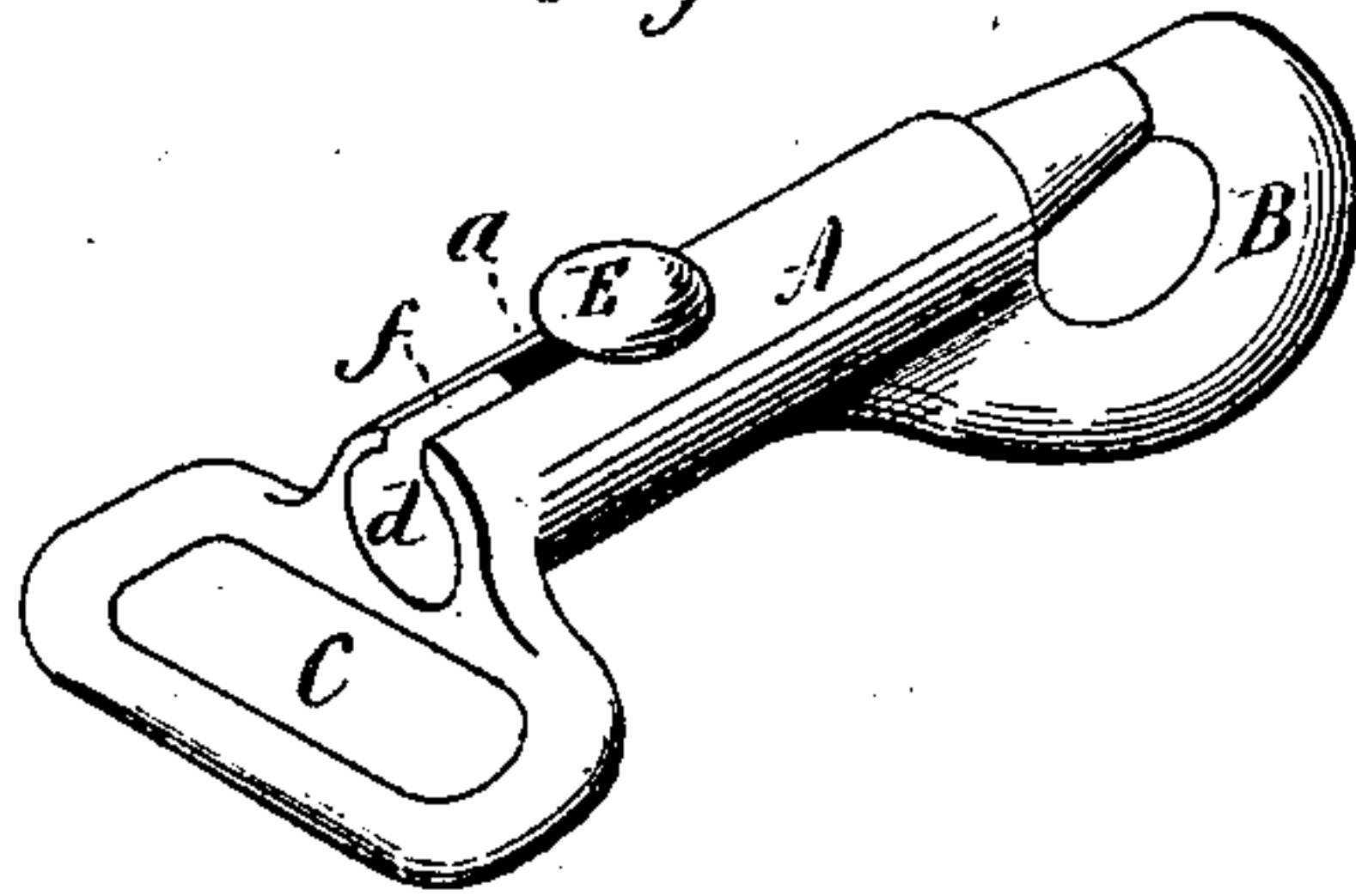


fig. 2

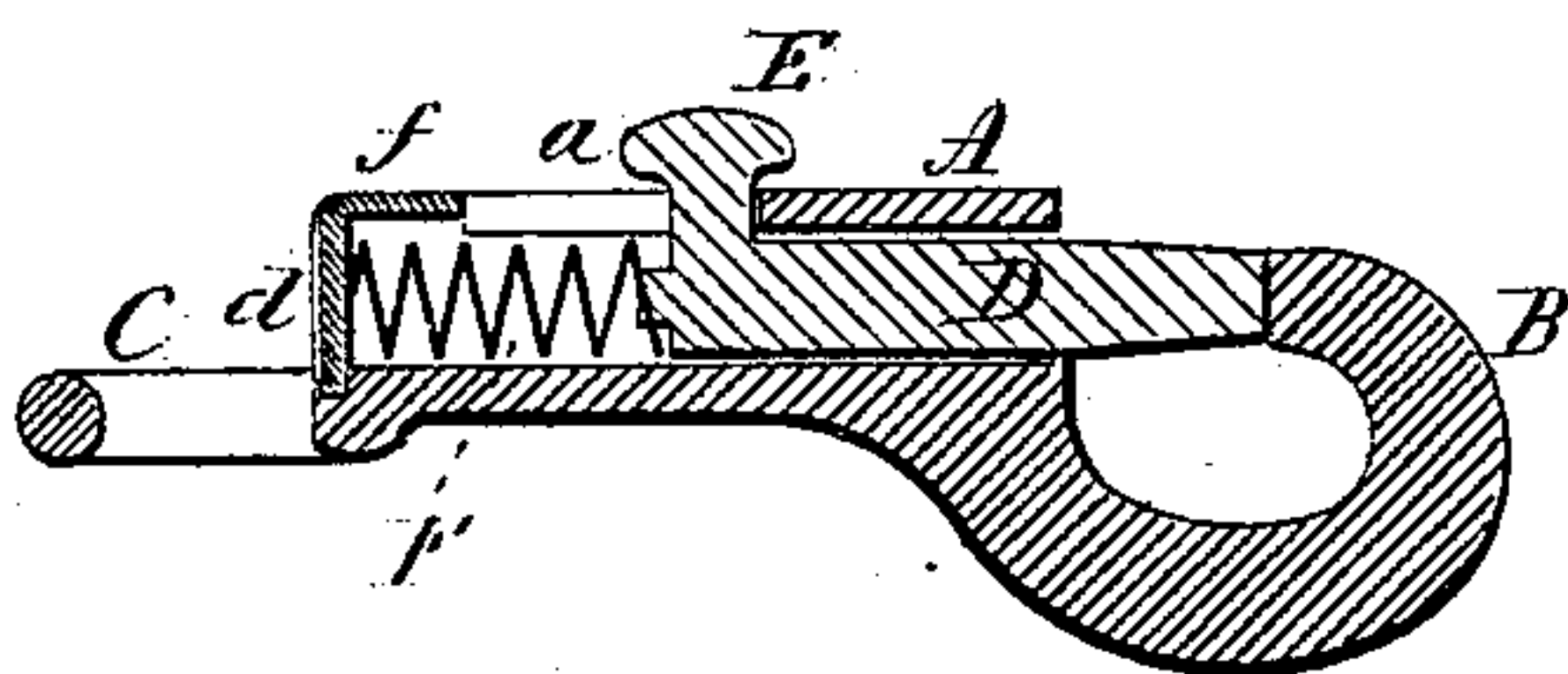


fig. 3

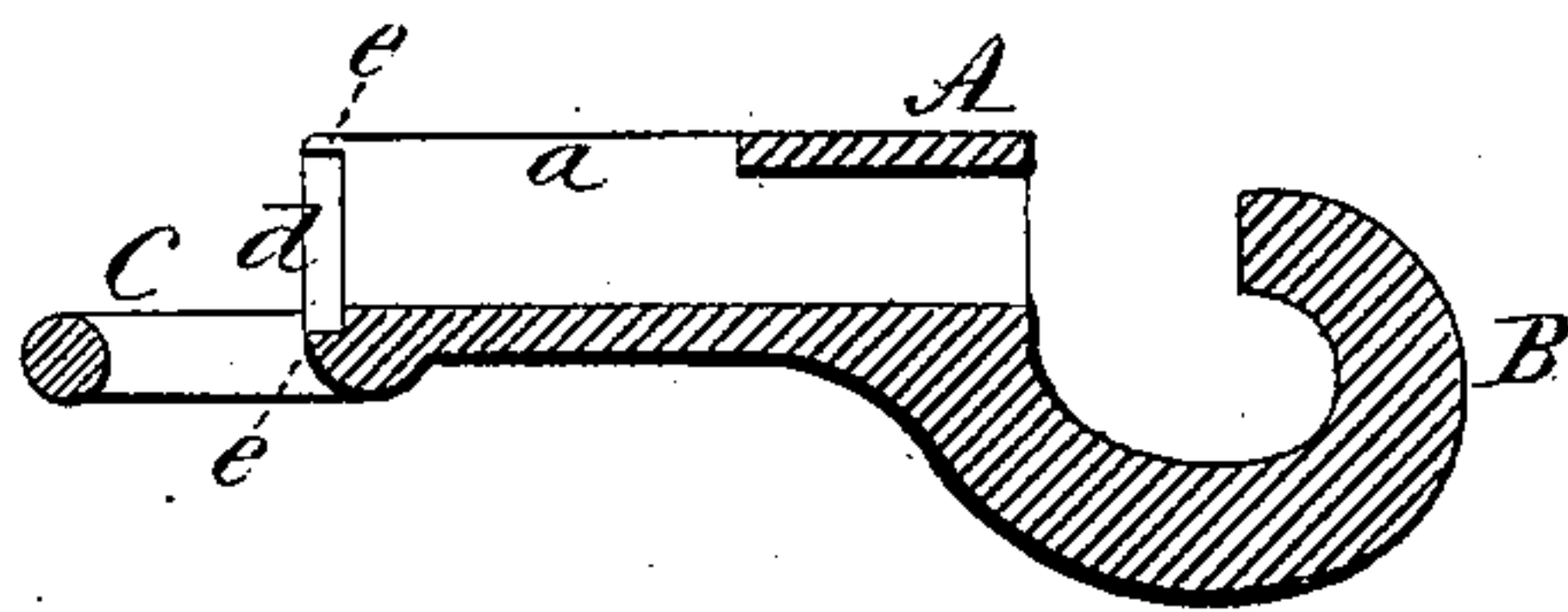
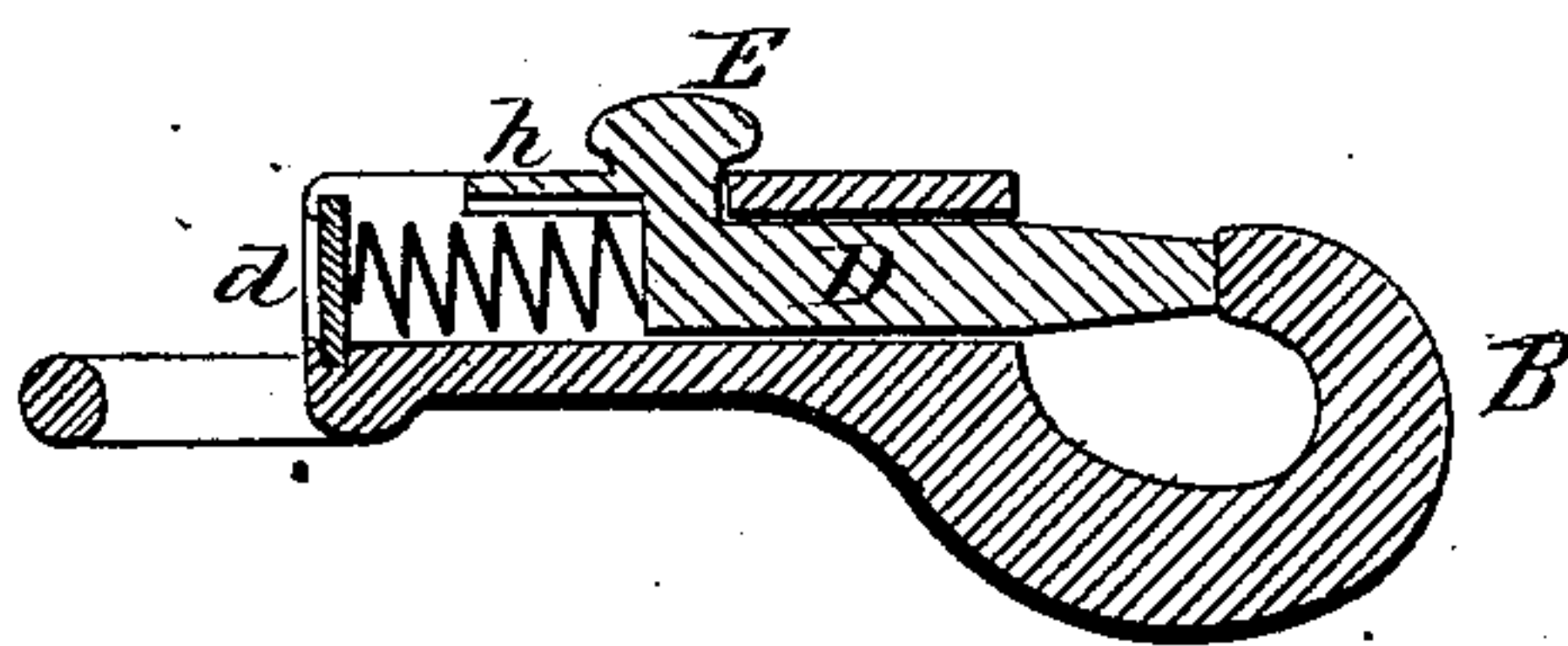


fig. 4



fig. 5



Witnesses.

J. H. Murray.
L. D. Rogers.

Joseph B. Sargent.
By atty. Inventor.
Wm. J. Earl.

UNITED STATES PATENT OFFICE.

JOSEPH B. SARGENT, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO SARGENT & CO., OF SAME PLACE.

MANUFACTURING SNAP-HOOKS.

SPECIFICATION forming part of Letters Patent No. 251,297, dated December 20, 1881.

Application filed March 21, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH B. SARGENT, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Snap-Hooks; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view; Fig. 2, a longitudinal central section; Fig. 3, a longitudinal central section of the casting without the bolt; Fig. 4, the cap for the rear end detached, and in Fig. 5 a modification.

This invention relates to an improvement in the manufacture of that class of snap-hooks in which the mouth of the hook is closed by a longitudinally-sliding bolt. In the usual construction the bolt is introduced from the hook end; hence the casting must be made with the hook turned to one side, and then, after the bolt is inserted, the hook must be bent to come into position in line with the bolt. In practice this bending of the hook breaks a large number of the parts, and consequently destroys them, so that a considerable loss of labor is sustained.

The object of this invention is, principally, to avoid this difficulty; and it consists in the construction, as hereinafter described, and particularly recited in the claim.

A is the body or barrel, terminating at one end in a hook, B, and at the other in a loop, C. The loop C is dropped below the barrel A, as seen in Fig. 3, the hook B standing in axial line or plane of the barrel—that is to say, without being turned from its final position. The barrel is opened from end to end—that is, tubular—and on the upper side a slot, *a*, is formed extending from the rear end toward the hook and open at the rear. In casting this part the core is readily supported at the hook and loop ends, and because of the loop being set below

the opening through the barrel the bolt may be inserted from the rear or over the loop forward.

D is the bolt, provided with a thumb-piece, E, which extends up through the slot *a*, as seen in Fig. 2. The bolt is inserted from the rear, then the spring F is introduced, also at the rear, against the bolt, and the rear end of the barrel closed to form a bearing for the rear end of the spring to rest against. The rear end is best closed by a cap, *d*. To receive this cap the barrel is constructed with a shoulder, *e*, at its rear end, then into this shoulder the cap *d* is set, and the sides of the barrel struck down over the cap, as seen in Figs. 2 and 5. To close that portion of the slot *a* which is not required for the thumb-piece to move through I make the cap *d* with a tongue, *f*, corresponding in width to the slot *a*, and turn this tongue down into the slot, as seen in Figs. 1 and 2.

The bolt is moved to open and close the hook in the usual manner.

Instead of constructing the cap *d* with the tongue *f*, the bolt D may be constructed with a tongue, *h*, to extend back into the slot *a*, as seen in Fig. 5, the extension of the tongue being only so far that it will leave the necessary open space for the movement of the bolt.

By this construction the body, hook, and loop are cast each in their proper and final relative position to each other, so that no bending of any part is necessary.

I claim—

The herein-described method of constructing snap-hooks, consisting in casting the shank of the hook tubular with a slot at the rear end, inserting the bolt into the tube, the thumb-piece through the bolt, a spring in rear of the slot, and closing the rear of the tube with a cap-piece, substantially as described.

JOSEPH B. SARGENT.

Witnesses:

WM. S. COOKE,

GEO. M. VAN DEWATER.