

(No Model.)

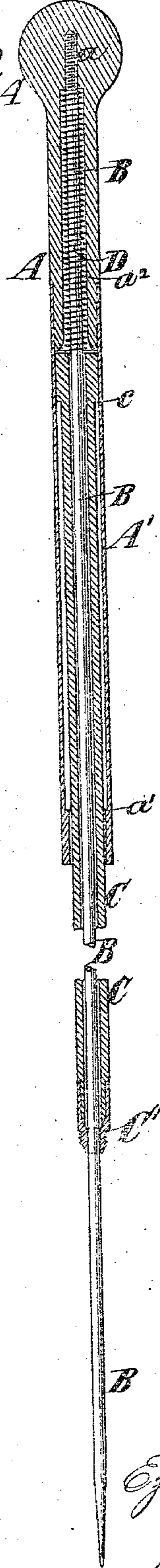
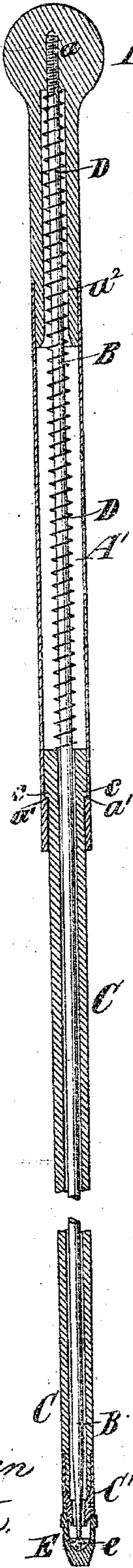
E. HOLMAN.
SWORD CANE.

No. 350,249.

Patented Oct. 5, 1886.

Fig. 1.

Fig. 2.



Witnesses:
O. Sundgren
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UNITED STATES PATENT OFFICE.

EZEKIEL HOLMAN, OF SANDY, UTAH TERRITORY.

SWORD-CANE.

SPECIFICATION forming part of Letters Patent No. 350,249, dated October 5, 1886.

Application filed February 27, 1886. Serial No. 193,438. (No model.)

To all whom it may concern:

Be it known that I, EZEKIEL HOLMAN, of Sandy, in the county of Salt Lake and Territory of Utah, have invented a new and useful
5 Improvement in Sword-Canes, of which the following is a specification.

Ordinarily the stem of a sword cane, which is hollow to receive the sword or weapon, is separable entirely from the head to which the
10 sword or weapon is attached, and when the weapon is desired for defense it is entirely withdrawn from the hollow stem.

The object of my invention is to provide a sword-cane in which the sword or weapon and
15 the stem and head are all connected together, and in which the tubular stem is adapted to yield when the sword or weapon is thrust forward, in order to permit the sword or weapon to protrude beyond it.

My improved cane consists, essentially, of a head or handle which has the sword or weapon fixed in it, and which is also provided with a tubular extension having an internal shoulder at the lower end, and a hollow stem which is
20 of smaller diameter than the tubular extension and slides within the same, and is provided with an external shoulder acting in conjunction with the internal shoulder of the extension to limit the outward movement of the
25 stem, and a spring bearing at one end on the head and at the other end on the tubular stem, and which serves to project the stem to shield and cover the sword or weapon until slid back on the sword or weapon in the use of the latter.
30 The stem has at its end a tip, which is perforated for the passage of the sword or weapon, and at the end of the cane is a removable cap which is applied for the ordinary use of the cane, and is only removed when it is desired
35 to use it as a weapon.

In the accompanying drawings, Figure 1 is a sectional view of a cane embodying my invention, the parts being adjusted for its use as a cane simply; and Fig. 2 is a similar section
40 showing the parts as they would appear after the tubular stem has been driven inward by the thrust.

Similar letters of reference designate corresponding parts in both figures.

50 A designates the head of the cane, which

may be made of metal or other suitable material, and in which the weapon or sword B, which consists of a steel rod pointed at the end, is firmly secured by a screw-thread, *a*, or otherwise. The head or handle A has a tubular extension, A', fixed rigidly thereto, and within this tubular extension is free to slide a tubular stem, C, which may be made of wood, vulcanite, or other suitable material. The tubular extension A' may consist of a metal tube having near the lower end an internal shoulder, *a'*, and the upper end of the tubular stem C is slightly enlarged, so as to form a shoulder, *c*, which, by coming to a bearing against the shoulder *a'*, will limit the downward movement of the tubular stem C relatively to the extension B. Within the tubular extension A', and arranged between the head A and the end of the tubular stem C, is a spiral spring, D, which bears at one end against the head A and at the other end against the tubular stem C. The function of this spring is to force the tubular stem outward into the position shown in Fig. 1, and when the tubular stem is fully projected the point of the
55 weapon B will project but very slightly beyond its end. At the end of the stem C, I have represented a tip-piece, C', which may be made of metal and screwed upon or otherwise made fast to the stem C, and which is perforated for
60 the passage of the sword or weapon B. Ordinarily the tip of the cane is covered by a removable cap, E, which may be screwed upon or otherwise secured to the tip-piece C', and this tip may be considered as forming a part
65 of the tubular stem C. Within the cap E may be a cushion or pad, *e*, of lead or other suitable material, which will prevent injury to the point of the weapon. When it is desired to use the weapon for defense, it is only necessary
70 to unscrew or remove the cap E, and by a thrust with the cane the weapon, sword, or rod will be caused to penetrate the object, while the tubular stem C, by reason of its end striking the object, will be forced backward along
75 the sword or weapon B and to the position shown in Fig. 2.

In order to accommodate the spring D when the tubular stem is thus slid inward within the tubular extension A', I have represented
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the head A as formed with a long socket or recess, a^2 , which is of sufficient length to accommodate the spring D when the latter is contracted or compressed by the sliding of the tubular stem C into the extension A'.

My improved implement may also be advantageously employed, when the cap E is removed, for walking upon ice or other hard or slippery surface, in order to avoid falling.

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

1. The combination, with a cane head and a tubular extension, A', projecting therefrom and having near the lower end an internal shoulder, of the weapon or rod B, fixed in the head and projecting beyond the tubular extension, the tubular stem C, of smaller diameter than the extension A', and sliding within the same, and provided at the upper end with an external shoulder, which, in connection with the shoulder in the tubular extension, limits the outward movement of the stem, and a spring, D, bearing at one end on the head and

at the other end on the tubular stem, and serving to project the stem and shield the weapon or rod, substantially as herein described.

2. The combination, with the cane-head having the recess or socket a^2 and the tubular extension A', of the weapon or rod B, the tubular sliding stem C, and the spring seated in the recess or socket a^2 and bearing on the sliding stem, substantially as herein described.

3. The combination, with the cane-head and its tubular extension, of the weapon or rod fixed in the head, the tubular stem sliding in the said extension and having at the end a tip perforated for the passage of the weapon or rod, and a removable cap applied over the perforated tip to cover the point of the weapon, substantially as herein described.

EZEKIEL HOLMAN.

Witnesses:

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