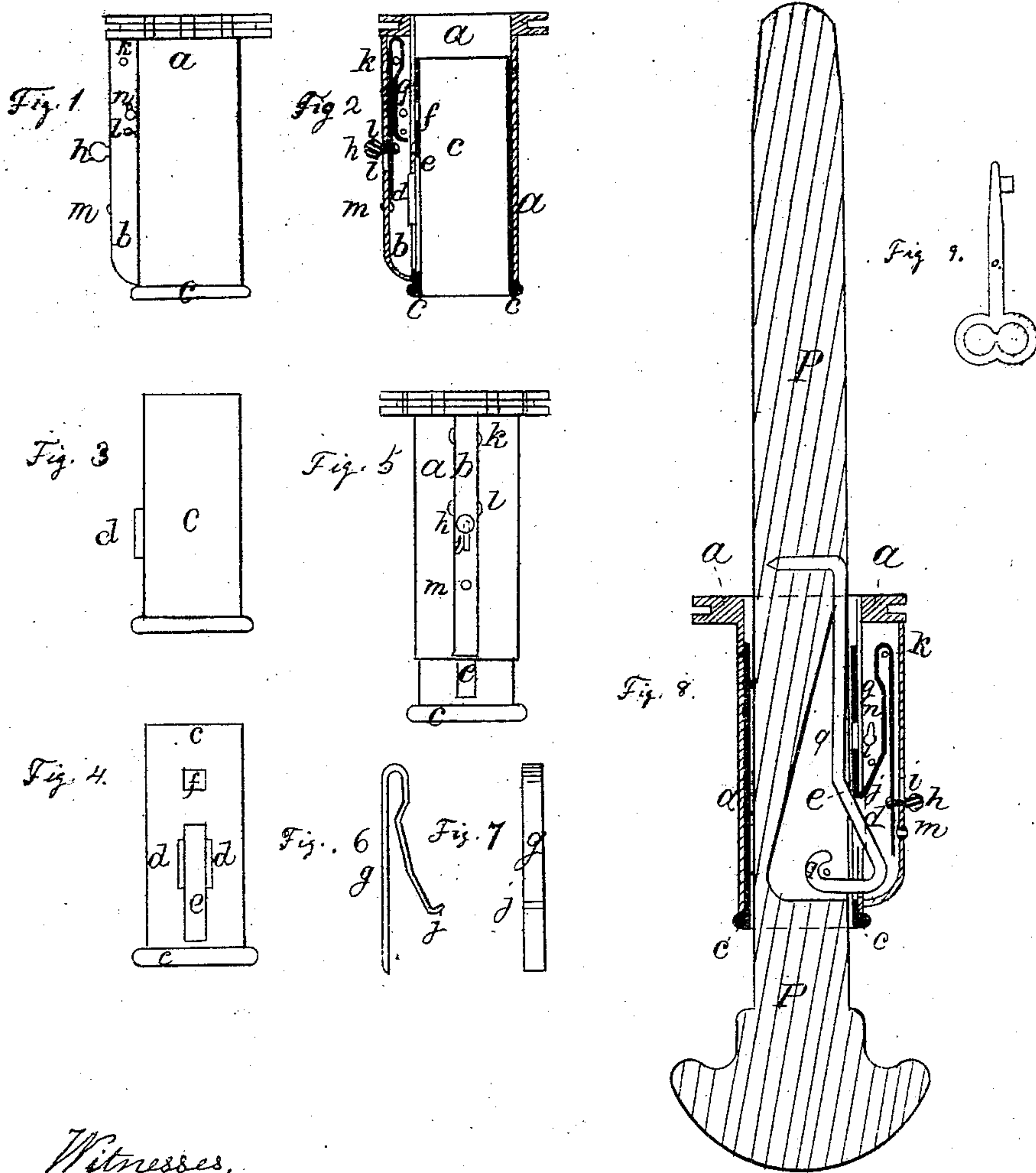


H. T. Robbins, Umbrella.

No 94,240.

Patented Aug 31, 1869.



Witnesses,

A. P. Robbins.
A. E. Robbins.

Horace T. Robbins

Inventor.

United States Patent Office.

HORACE T. ROBBINS, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO
ELLIS, KNAPP & CO., OF NEW YORK CITY.

Letters Patent No. 94,240, dated August 31, 1869.

IMPROVEMENT IN UMBRELLAS.

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, HORACE T. ROBBINS, of Boston, county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in Runners for Umbrellas and Parasols; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side view of a runner, having my improvement applied to it.

Figure 2 is a longitudinal section of the same.

Figure 3 is a side view of the inner sliding tube, detached from the runner.

Figure 4 is a side view of the same, taken at right angles to fig. 3.

Figure 5 is a side view of a runner, taken at right angles to fig. 1, with the sliding tube partially withdrawn.

Figure 6 is a side view of the additional locking-spring, detached from the runner.

Figure 7 is a side view of the same, taken at right angles to fig. 6.

Figure 8 is a longitudinal section of a runner and umbrella-handle, showing the position of the runner and the locking-spring when the umbrella is closed and locked with the additional locking-device.

Figure 9 is the key.

Similar letters refer to like parts in the different drawings.

- a* is the runner.
- b*, the chamber on the side of the runner.
- c*, the sliding unlocking-tube inside the runner.
- d*, the stop-device on the tube.
- e*, a slot in the tube.
- f*, a square hole in the tube.
- g*, the additional locking-spring.
- h*, a knob attached to the spring.
- i*, a slot, through which the knob is connected to the locking-spring.
- j*, a catch on the end of the spring.
- k* and *l* are pins on which the spring slides back and forth.

m is a rivet to hold the spring in place when the runner is not locked with the additional locking-device.

n, the key-hole.

o, the key.

p, the umbrella-handle.

q, the fastening-spring in the umbrella-handle.

The nature of my invention consists in the application of an additional locking-device to my improved umbrella and parasol-runner, which was patented June 22, 1869.

I construct my runner with a chamber, *b*, on the side of it.

Inside the runner I arrange the tube *c*, having a slot, *e*, coincident with and communicating with the chamber *b*.

When the umbrella is closed, the fastening-spring in the umbrella-handle passes up through the slot *e* into the chamber *b*, and the umbrella is thereby locked.

When I wish to open the umbrella, I partially withdraw the tube *c*, as shown in fig. 5. This operation slides the tube down until the upper end of the slot *e* comes in contact with and depresses the fastening-spring *q*, thereby releasing the runner, or unlocking the umbrella.

The projecting lips *d* serve as a stop-device to prevent the tube from being withdrawn too far.

In order to make my umbrella still more secure, I apply an additional locking-device, which consists of the spring *g*, knob *h*, slot *i*, catch *j*, pins *k* and *l*, rivet *m*, key-hole *n*, and key *o*. It does not require the key to lock the umbrella with this additional locking-device, but it is done by simply sliding the knob *h* down until the catch *j* drops into the slot *i*, in the tube *c*, as shown in fig. 8. This operation locks the runner so that the tube *c* cannot be withdrawn without the aid of the key.

To unlock the runner, I apply the key and turn it round until it raises the catch *j* clear from the tube *c*, and with the other hand slide the knob up, as shown in figs. 2 and 5, then the tube *c* may be withdrawn and the runner released from the spring *g*.

By having a projection on the spring *g* for the key to work against, the spring may be thrown back and forth with the key alone.

It would not usually be necessary to use the additional locking-device, for if a person unacquainted with this runner should attempt to open the umbrella, he would first very naturally slide the knob *h* down to the bottom of the slot *i*, but this operation effectually locks the runner, so that it cannot be unlocked without the key.

I claim—

1. The additional locking-spring *g*, in combination with the runner *a*, chamber *b*, sliding tube *c*, and key *o*, substantially in the manner and for the purpose specified.

2. The knob *h*, in combination with the locking-spring *g*, the runner *a*, chamber *b*, sliding tube *c*, and key *o*, substantially as and for the purpose specified.

HORACE T. ROBBINS.

Witnesses:

EDWIN ALDEN ALGER,

E. AUGUSTUS ALGER.