

H. Plumb,

Umbrella Lock.

No. 98797.

Patented Jan. 11, 1870.

Fig. 1.

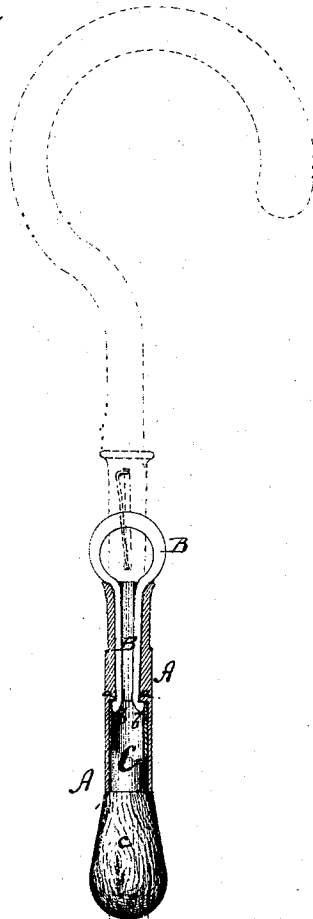


Fig. 2.



Witnesses:

Alex F. Roberts

E. J. Lake

Inventor:

H. Plumb

PER

Minny
Attorneys.

United States Patent Office.

HIRAM PLUMB, OF FRANKFORD. ASSIGNOR TO HIMSELF AND WILLIAM
A. DROWN, JR., OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 98,797, dated January 11, 1870.

IMPROVEMENT IN LOCKS FOR 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, HIRAM PLUMB, of Frankford, Philadelphia, in the county of Philadelphia, and State of Pennsylvania, have invented a new and improved Umbrella-Lock; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a longitudinal section of my improved umbrella lock and key.

Figure 2 is a transverse section of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to devise a simple lock, by which the runner of an umbrella, when the same is closed, can be locked to the handle, so that unauthorized persons may be prevented from using the umbrella. A simple key will readily open the lock and allow its removal.

The lock is made in form of a tube, A, within which a shoulder, *a*, is formed, and of a U-shaped spring, B, which has outward-projecting hooks *b* at the ends.

The spring-catch B is, when the umbrella is closed, drawn through the lower spring of the umbrella, as indicated in fig. 1. Then the ends of the spring-catch are inserted in the narrower end of the tube A, until they pass the shoulder *a*, when they spring apart into the wider portion of the tube.

The hooks now fit over the shoulder *a*, and the

tube can therefore not be withdrawn, the ends of the spring-catch being also united so that they cannot be withdrawn from the umbrella-springs.

The outer faces of the hooks *b* are bevelled, as shown.

The key C is a cylinder, formed on a handle, *c*.

The cylinder part of the key is just large enough to enter the wide part of the tube A.

The bore of the key is oval, as shown in fig. 2.

When the key is inserted, the broad part of this bore should be in line with the two shanks of the spring-catch.

The key is forced down against the shoulder *a*, and fits over the hooks *b* with its wide part. It is then turned in the tube A, so as to bring the hooks into the narrow part, and thereby contracts the hooks sufficiently to let them clear the shoulder *a*, and to allow the tube to be withdrawn from the spring-catch. The latter can then be withdrawn from the umbrella, to unlock the same.

Having thus described my invention,

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

The combination of the hooked spring-catch with the shouldered tube A, and internally eccentric key C, each being constructed, arranged, and operated as and for the purpose specified.

H. PLUMB.

Witnesses:

EDWARD EVANS,
W. H. RANKEN.