

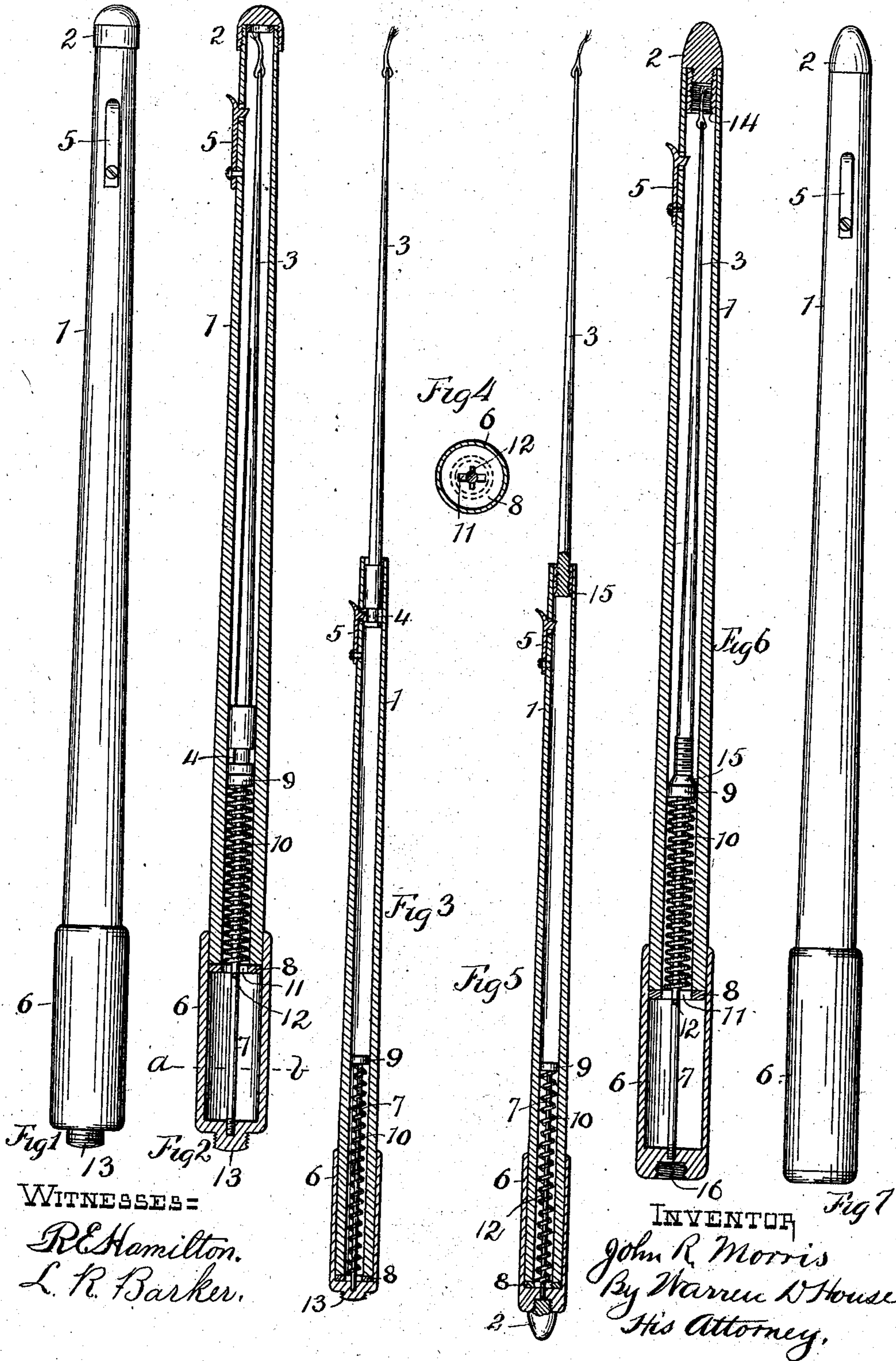
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PATENTED MAR. 20, 1906.

J. R. MORRIS.

COMBINED CANE AND WHIP.

APPLICATION FILED FEB. 18, 1904. RENEWED JUNE 26, 1905.



UNITED STATES PATENT OFFICE.

JOHN R. MORRIS, OF JEWELL, KANSAS.

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No. 815,458.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed February 18, 1904. Renewed June 26, 1905. Serial No. 267,077.

To all whom it may concern:

Be it known that I, JOHN R. MORRIS, a citizen of the United States, residing at Jewell, in the county of Jewell and State of Kansas, have invented new and useful Improvements in a Combined Cane and Whip, of which the following is a specification.

My invention relates to improvements in combined canes and whips.

10 The object of my invention is to provide a device that may be used as a whip, or, if desired, the parts comprising the device may be so disposed as to form a cane or walking-stick.

15 My invention provides a tubular handle-section, a whip-section insertible in the handle and movable therein to a position suitable for forming the whip, means by which the whip-section may be releasably secured in such position, and a compressible means, such as a spring, which when expanded forces the whip-section to the extended position. My invention provides further novel means for compressing and releasably holding the spring in the compressed position. It provides, further, a handle-section comprising a tube, both ends of which are screw-threaded, a whip-section insertible through one end, and a screw-threaded cap for closing the said end and fitted to the screw-threaded portions at both ends of the handle, whereby when the cap is not used for closing the open end of the handle it may be securely held upon the other end.

35 Other novel features are hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a side elevation view of one form of my invention in which a spring is employed to eject the whip-section, the whip-section being retained in the extended position by a releasable locking device. In this view the device is shown with its parts disposed to form a cane. Fig. 2 is a central longitudinal sectional view of what is shown in Fig. 1. Fig. 3 is a central longitudinal sectional view of the form shown in Figs. 1 and 2, the whip-section being shown in the extended position. Fig. 4 is a cross-section taken on the dotted line *a b* of Fig. 2. Fig. 5 is a view similar to Fig. 3 of a modified form of my invention in which the inner end of the whip-section is externally screw-threaded and fitted to the internally screw-threaded outer end of the handle by means of which the two sections may be firmly secured with

the whip-section in the extended position. Fig. 6 is a longitudinal sectional view of the form shown in Fig. 5, the parts being shown assembled to form a cane. Fig. 7 is a side elevation of what is shown in Fig. 6.

Similar characters of reference indicate similar parts.

Referring to the form shown in the first four figures, 1 denotes the tubular handle-section, the upper end of which is externally screw-threaded and adapted to receive thereon an internally-screw-threaded cap 2. Insertible in the handle 1 is a longitudinally-movable whip-section 3, adapted to be disposed, as shown in Fig. 3, in an extended position, the enlarged lower end of the whip-section 3 being provided with an annular groove 4, adapted to receive therein one end of a spring-catch 5, secured at one end upon the outside of the handle, the other end passing through a hole in the wall of the handle and fitting in the groove 4 to prevent the whip-section retracting. Upon the lower end of the handle 1 is mounted a longitudinally-slidable sleeve 6, having secured to its closed lower end a central rod 7, which extends through a transverse plate 8, secured to the lower end of the handle 1, and is secured to a follower 9, adapted to have the lower end of the whip-section 3 rest thereon when the said section is retracted, as shown in Fig. 2. A coil-spring 10 encircles the rod 7 and has its lower end bearing upon the plate 8 and its upper end upon the follower 9. The plate 8 is provided with an oblong hole 11, in which the rod 7 is mounted and adapted to permit a pin 12, secured transversely in the rod 7, to pass therethrough when the said pin is in the proper position, but preventing the rod from so passing when turned to a different position. This form of my invention is operated as follows: To assemble the parts to form the whip, the cap 2 is removed and mounted on the screw-threaded projection provided on the outer side of the closed end of the sleeve 6 and denoted by 13. By rotating the sleeve 6 on the handle 1 to the proper position the pin 12 can pass through the oblong hole 11, thus releasing the spring 10, which has previously been compressed and which then suddenly forces the follower 9 outward and quickly shoots the whip-section 3 to the position shown in Fig. 3, in which the releasable locking device comprising the spring strip or catch 5 engages the grooved lower end of the section 3. To

form the cane, the sleeve 6 is retracted to the position shown in Fig. 2 and turned so as to position the pin 12 transversely relative to the hole 11, thus retaining the spring which has been compressed by drawing back the sleeve 6. The catch 5 is then forced outwardly at its free end, freeing the whip-section 3, which will then drop to the position shown in Fig. 2, when the cap 2 may be removed from the projection 13 and placed on the outer end of the handle, thus to form the cane.

In the form shown in Figs. 5, 6, and 7 the parts are similarly formed and operated, excepting that the outer end of the handle is internally screw-threaded and provided with a shoulder 14, adapted to have bear upon it a peripheral shoulder on the lower end of the section 3 and denoted by 15. The section 3 just above the said shoulder is screw-threaded and fitted to the threaded upper end of the handle. The cap 2 is screw-threaded externally at one end and fitted to the threaded upper end of the handle and also to a threaded hole 16, provided in the lower end of the sleeve 6. In this form the catch 5 is employed to retain the section 3 in the upper position after it has been forced to that position and until it can be rotated, so as to have its screw-threaded end fit the threaded end of the handle to which it is secured. The shoulders 14 and 15 prevent the entire removal of the section 3 by inadvertence and further help to firmly lock the section in the extended position.

Many modifications of my invention may be made without departing from its spirit.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A combined cane and whip comprising a tubular handle, a whip-section insertible in the handle, a spring for forcing the whip-section to the extended position, a member

slidably mounted on the handle, means by which the spring may be compressed when the said member is moved to the proper position on the handle, and means for releasably retaining the spring in the compressed position.

2. A combined cane and whip comprising a tubular handle-section, a whip-section insertible in the handle-section, a spring for forcing the whip-section to the extended position, means for retaining the whip-section in the said position, a member slidably mounted on the handle-section, means by which the spring may be compressed when the said member is properly moved, and means for releasably retaining the spring compressed.

3. A combined whip and cane comprising a tubular handle-section, a whip-section insertible in the handle-section, a spring for forcing the whip-section into the extended position, a sleeve slidably mounted on the handle-section, means by which the spring may be compressed when the sleeve is properly moved, and means for releasably holding the spring compressed.

4. A combined cane and whip comprising a tubular handle-section, a whip-section insertible in the handle-section, a follower longitudinally movable in the handle-section and adapted to support the whip-section, a longitudinally-movable member on the handle, means by which the follower may be retracted in one direction when the said member is properly moved, and a spring for moving the follower in the opposite direction.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN R. MORRIS.

Witnesses:

WILLIAM WILLIAMS,
CYRUS GRIMM.