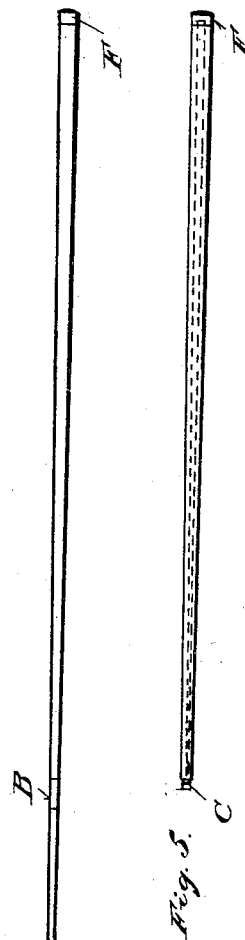


M. O. FELKER.
COMBINED CANE AND WHIP.

Patented Sept. 8, 1891.



H.M. Plaisted
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Fig. 1.

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UNITED STATES PATENT OFFICE.

MELANCTHON O. FELKER, OF SPRINGFIELD, OHIO.

COMBINED CANE AND WHIP.

SPECIFICATION forming part of Letters Patent No. 459,081, dated September 8, 1891.

Application filed May 8, 1891. Serial No. 392,054. (No model.)

To all whom it may concern:

Be it known that I, MELANCTHON O. FELKER, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Combined Whips and Walking-Canes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in combined whips and canes.

The object of my invention is to provide a flexible elastic stock adapted to support and carry a whip-section and provided with a hollow core of such size as to be filled by said whip-section and constitute a solid cane when the whip-section is mounted therein; and the peculiarities of construction and combination will be fully described hereinafter, and pointed out in the claims.

In the accompanying drawings, forming a part of this specification, and in which like reference-letters indicate corresponding parts, Figure 1 represents a longitudinal section of a portion of the stock with a portion of the whip-section mounted therein; Fig. 2, a section of the smaller end of the stock with the whip-section mounted thereon; Fig. 3, a portion of the upper tapering end of said whip-section; Fig. 4, a view of the device adapted to be used as a whip and shown on a smaller scale, and Fig. 5 a similar view when adapted for use as a cane.

The letter A designates the whip-section, formed of the usual materials—such as whale-bone and its braided covering *a*—or of other suitable material, and provided at its larger end with a ferrule B, firmly secured thereto and preferably flush at its outer surface with the outside of the said covering and provided with interior screw-threads for a portion of its length, whereby it may be engaged with a tip C, having exterior screw-threads to match therewith. Any other suitable form of engagement between the ferrule B and the tip C may be employed. The said tip is brazed, soldered, or otherwise secured to a flexible elastic hollow core D, preferably formed of thin tempered steel and constituting a tapering hollow core of approximately the size of the whip-section A to allow of the latter be-

ing firmly and closely fitted therein. To the other end of the core D is secured the ferrule E by brazing or other means and provided with exterior screw-threads matching similar interior threads in a cap F, whereby the latter may be mounted thereon to close the larger end of the core. Any other suitable means of mounting said cap on the ferrule E may be employed. The ferrule E and the tip C are preferably of such flanged diameter as to extend a certain appropriate distance beyond the said core D, and the latter is wrapped with hemp or other suitable material and provided with a covering similar to the whip-section, said covering and wrapping abutting against the larger flanged diameters of the ferrule E and tip C, respectively, which form shoulders therefor. This wrapping and covering for the hollow core is simply to enlarge the same to a suitable and convenient size for its use as a cane and stock without destroying the elasticity due to its slight hollow tapering form and the thin tempered steel of which it is preferably constructed.

As will be seen from the drawings, the construction above described gives a neat uniformly-tapering appearance to the device when used as a whip with the whip-section mounted on the stock, while when used as a cane the whip-section fits snugly within the stock and forms a solid cane, the stock being also stiffened by the inserted whip-section, and thus further adapted to its use as a cane. Its principal characteristic, however, lies in its flexibility when adapted for use as a whip by withdrawing the whip-section, mounting it on the tip C, the elasticity of the hollow tempered core preserving the shape of the stock and returning it to its original straight position, on account of the said tubular shape and material, as before mentioned. The usual bent appearance of most whips after a certain amount of use is prevented by my device, which at the same time gives a greater flexibility and elasticity than can ordinarily be secured. When used as a cane for support, the stiffness is increased by the solidity of the combination, due to the close fitting of the whip-section within the stock. Its use for the purpose of defense or guard is further promoted by the said solid combination, while

the above-described construction presents an article not easily fractured or broken by violent usage.

In Fig. 1 it will be seen that the end of the whip-section extends slightly beyond the ferrule E and into a socket in the cap F. By this projection it may be readily withdrawn after the removal of the cap. The shoulder on the ferrule E presents a bearing-surface for the cap, as well as a shoulder for the wrapping and covering on the opposite side thereof. The tip C is preferably smooth at its lower portion and has but one or two screw-threads at its larger shoulder portion, whereby the ferrule B of the whip-section may be readily slipped thereon, and a turn or two will cause the said whip-section to be firmly secured on the stock. The flange of the tip C furnishes a bearing-surface on one side for the ferrule B and provides a shoulder on the other side for the wrapping and covering of the core similarly to the flange on the ferrule E at the other end of the stock.

It will be seen by reference to the drawings, together with the above description, that when the whip-section is mounted on the stock or cane-section the device presents no substantial difference from an ordinary whip that would indicate that it might be used for a cane. Again, when the whip-section is dismounted and incased within the stock or cane-section the article presents nothing to indicate that it might be used for a whip—that is to say, the device when used as a whip or as a cane is perfectly adapted in appearance and construction to its respective function.

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

1. In a combined cane and whip, the combi-

nation, with a whip-section, of a cane-section composed of a tapering flexible hollow core and of suitable wrapping thereon to give the proper size thereto, the hollow core and the whip-section being of substantially the same contour, whereby the former may receive the latter, thus making the former stiff when used as a cane, and a detachable joint between the smaller end of the cane-section and the larger end of the whip-section, whereby the two sections may be connected to form a whip.

2. In a combined whip and cane, the combination, with a cane-section consisting of a tapering elastic core, a tip on the smaller end thereof and wrapping around the core, and a detachable cap secured to the larger end of the core, of a whip-section having at its lower end a ferrule adapted to screw onto the tip carried by the core, said whip-section being also adapted to fit into and occupy the interior of the hollow core by removing the cap from the core, whereby either a whip may be formed flexible from end to end or a cane may be formed practically stiff.

3. In a combined whip and cane, the combination, with a hollow core and a wrapping therefor to suitably enlarge it, of a ferrule fitted upon the larger end of the core and having a projecting flange extending out to agree with the diameter of the wrapping and forming a shoulder therefor, a screw-thread at the outer portion of the ferrule, and a cap screw-threaded to screw on such outer portion, the said flange acting as a shoulder for the cap.

In testimony whereof I affix my signature in presence of two witnesses.

MELANCTHON O. FELKER.

Witnesses:

OLIVER H. MILLER,

A. C. WISEMAN.