

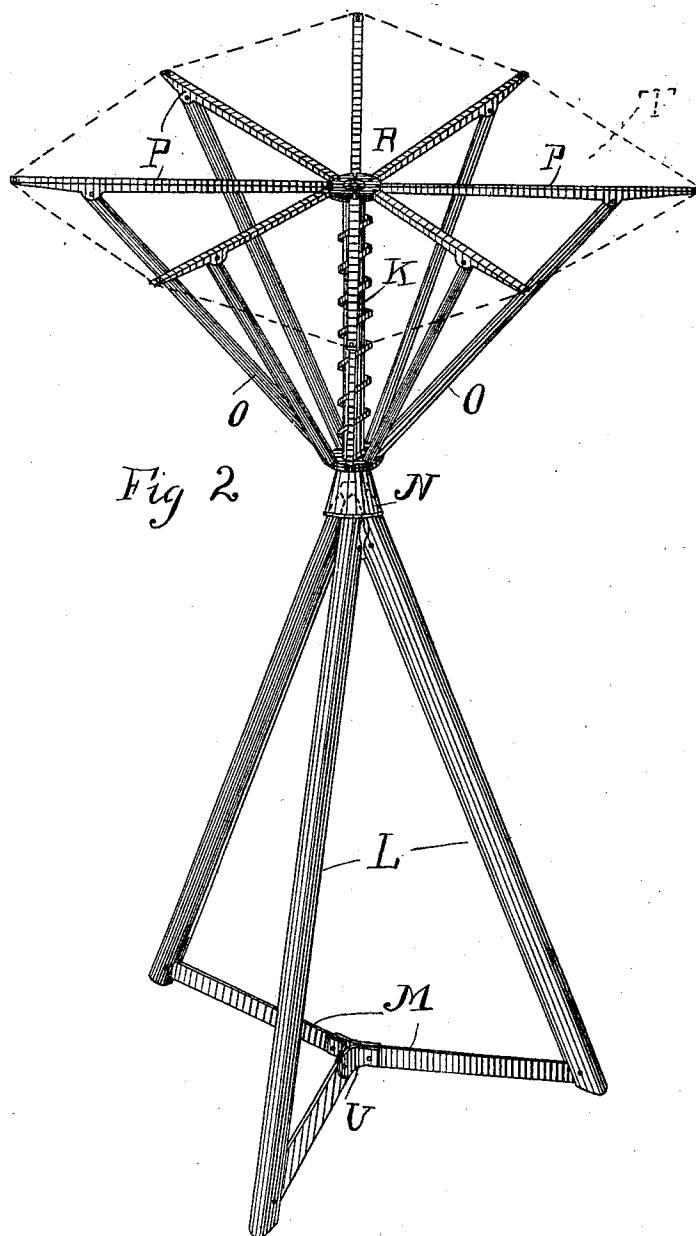
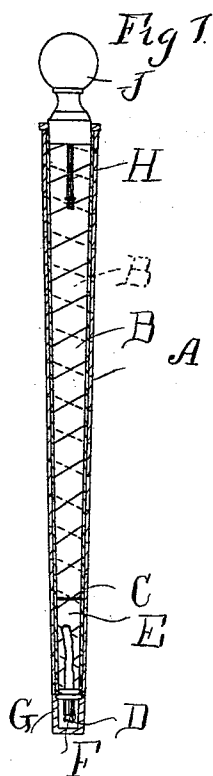
(No Model.)

2 Sheets—Sheet 1.

E. C. PHILLIPS.
CANE STOOL.

No. 498,487.

Patented May 30, 1893.



WITNESSES

Walter J. Smith
Alice H. Geddes

INVENTOR

Edward C. Phillips

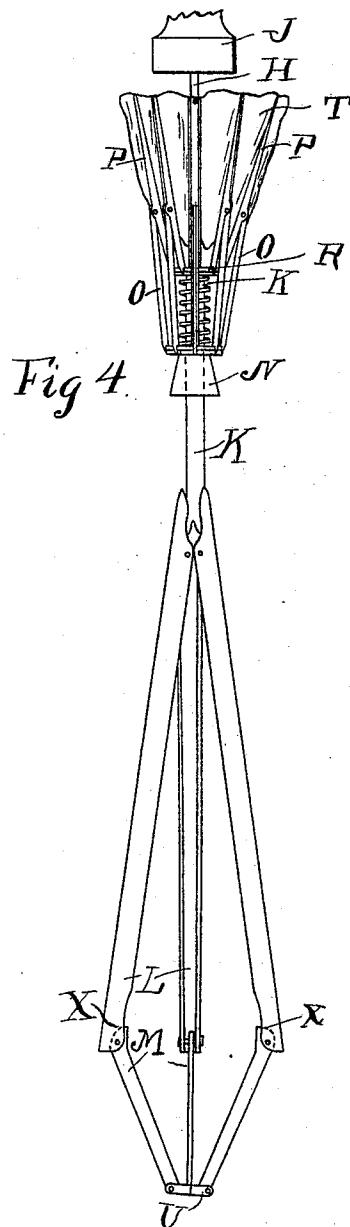
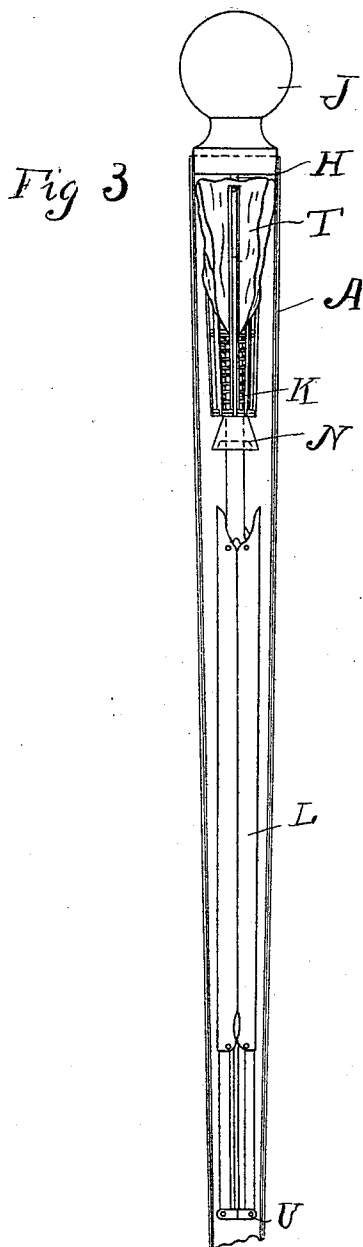
BY

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Elwood C. Phillips

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ATTORNEY

UNITED STATES PATENT OFFICE.

ELWOOD C. PHILLIPS, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE COLUMBUS CANE COMPANY.

CANE-STOOL.

SPECIFICATION forming part of Letters Patent No. 498,487, dated May 30, 1893.

Application filed May 16, 1892, Serial No. 433,161. (No model.)

To all whom it may concern:

Be it known that I, ELWOOD C. PHILLIPS, a citizen of the United States, residing at Chicago, Cook county, Illinois, have invented a new and useful Improvement in Combination-Canes, of which the following is a specification.

My invention relates to improvements in combination canes, and particularly such as are combined with removable camp stools or the like, and also, if desired, with torch light attachments. It is illustrated in the accompanying drawings, wherein—

Figure 1, is a longitudinal section through the cane with the stool removed, and torch in position. Fig. 2, is a perspective view of the stool. Fig. 3, is a longitudinal section of cane with stool in place. Fig. 4, is an elevation of the stool partly collapsed.

Like parts are indicated by the same letter in all the figures.

A is the body of the cane, or the exterior casing for torch and stool. It consists of the oppositely twisted spiral ribbons B B, lying one over the other and abutting at their edges. They may be tinned so as to be securely fixed together. Of course the body or case may be made in various ways.

C is the partition which divides the lower lamp or torch chamber from the upper or stool chamber.

D is a torch having the oil chamber E and wick F; and G is a cap preferably screw-threaded on the lower end of the cane to keep the torch in position when not in use.

H is a screw-threaded rod projecting inwardly from the head J, which serves as the handle of the cane and also as a plug to close the upper chamber.

K is a rod having a screw-threaded hole at one end to receive the rod H and having at its other end the pivotally connected stool legs L L.

M M are inwardly projecting braces pivoted together at their inner extremities, and each pivotally secured to the lower end of one of the legs. The upper ends of these legs are shaped so as to fit closely upon the rod K when they are extended and the stool

is in use, and they are shaped on the outer sides of their upper extremities so as when in such position to form a substantially conical bearing to receive the funnel-shaped or hollow conically-shaped collar N which slides freely on the rod K and is forced downwardly by the spiral spring which encircles the rod K above it. The collar, shaped as shown, fits snugly over the outer surfaces of the upper ends of the legs when the stool is in use. Upwardly projecting from the collar are the arms O O, pivotally secured at both ends, and at their upper ends to the laterally projecting arms P P, which are secured at their inner ends to a collar on the upper end of the rod K. This collar is lettered R, and it rests upon a shoulder at the top of the rod, and both of the collars are free to rotate so as to permit the seat portion of the stool to rotate. A cushion or cover T is secured to the laterally extending arms.

U is a triangular-shaped link to which the inner ends of the arms are secured. These arms are pivoted at one corner of their outer ends to the lower ends of the legs and the pivoted corner of each arm is projected or formed so as to constitute a shoulder to limit the upward motion of the three arms when they are forced up to extend the legs of the stool, and they thus normally rest slightly above the plane in which lie the lower ends of the legs.

The use and operation of my invention are as follows: The cane, properly constructed, will contain the stool folded up in its upper chamber, the arms which connect the legs below being extended downwardly from such legs and the sliding collar being pushed upwardly and the seat and its associated arms being snugly folded together and retained in the upper part of the chamber. The whole is readily pushed into the cane, as well as withdrawn therefrom, by means of the screw-threaded rod on the cane head or handle, which is made to engage the hole in the upper end of the rod K before the stool is inserted in the cane. When the cane is used, the head is pulled upwardly and this will draw out the stool, whereupon the spiral

spring will force down the sliding collar and extend the upper arms into their normal positions and expose the cushion and seat in a proper position for use. The three lower arms should then be pushed upwardly until their inner ends are slightly above the horizontal plane of the ends of the stool legs, in which position the funnel-shaped sliding collar will rest upon the upper ends of the legs.

The laterally projecting seat arms are supported at their inner ends upon the collar which is free to rotate on the shoulder on the rod K, while their outer ends are supported by the arms which rise from the sliding collar, which latter collar is free to rotate on the outward surfaces of the upper ends of the legs, thus a rotating seat is secured. Since the lower ends of the legs are connected by the arms, as shown, they serve to support one another so that the stool will not readily sink even in soft earth, or to avoid such sinking any object, like a stick or board, can be thrown under the stool. The various arms, legs, &c., are made of U-shaped steel preferably so as to give the greatest strength with the least weight.

When the screw is removed the head of the cane with its screw rod is restored to its position when it may be used as an ordinary cane. If the torch is to be used, it can be employed whether the stool be in the cane or not, as it is only necessary to remove the lower cap which closes the torch chamber, and reverse the position of the cane. It is obvious that some changes could be made in this device or some of the portions be omitted without destroying the utility of the others.

The device is especially designed as a campaign article and for this reason the torch is employed, though without the torch attachment it is very serviceable for out-door work, artists work, and the like.

The leg braces M are pivotally connected to the central triangular-shaped piece. The material of the legs is slightly elastic or springy. The outer extremities of such braces are provided with enlarged corners and they are pivoted so that when they pass slightly above the horizontal plane, such corner will engage the inner surface of the U-shaped leg and prevent further upward motion of the braces. The parts are so adjusted that to force the braces past such horizontal plane

upwardly, will slightly bend the legs, and thus they are held in such elevated position.

I claim—

1. In a stool the combination of a central rod with legs U-shaped in cross section pivotally connected thereto and depending therefrom, with arms inwardly extending from the lower ends of such legs and pivoted between the sides thereof and connected together at their inner extremities by a pivot and provided with a projecting corner whereby the inner ends of the arms are permitted to pass a short distance above the plane of the lower ends of the legs so as to lock such legs in position and are stopped by such corner from going farther.

2. In a stool the combination of a smooth central rod with U-shaped legs pivoted to the lower end thereof and shaped at their upper ends so as to form a conical support when the legs are extended below, and a stool seat having arms supported below on a rotating collar which slides freely on the rod and is provided with a conical recess and rests upon such support and thus receives and holds the upper ends of the legs together.

3. In a stool the combination of a central rod with seat arms projecting from the top thereof, a sliding collar on such rod, supporting arms for the seat arms secured on such collar and legs secured to the lower end of such central rod and adapted at their upper ends to form a support for such sliding collar, said collar recessed below to receive and hold together the upper ends of such legs.

4. The combination of a complete hollow cane, with a separable stool adapted to be inserted therein, said stool containing a central rod with screw threaded aperture and an upper collapsible seat and lower collapsible legs adapted to be collapsed before forcing said stool into the cane and a cane handle adapted to fit snugly into the end of the cane and provided with an inwardly projecting screw threaded rod adapted to pass through the seat and be received into the upper end of the stool rod.

ELWOOD C. PHILLIPS.

Witnesses:

FRANCIS W. PARKER,
M. E. MOORE.