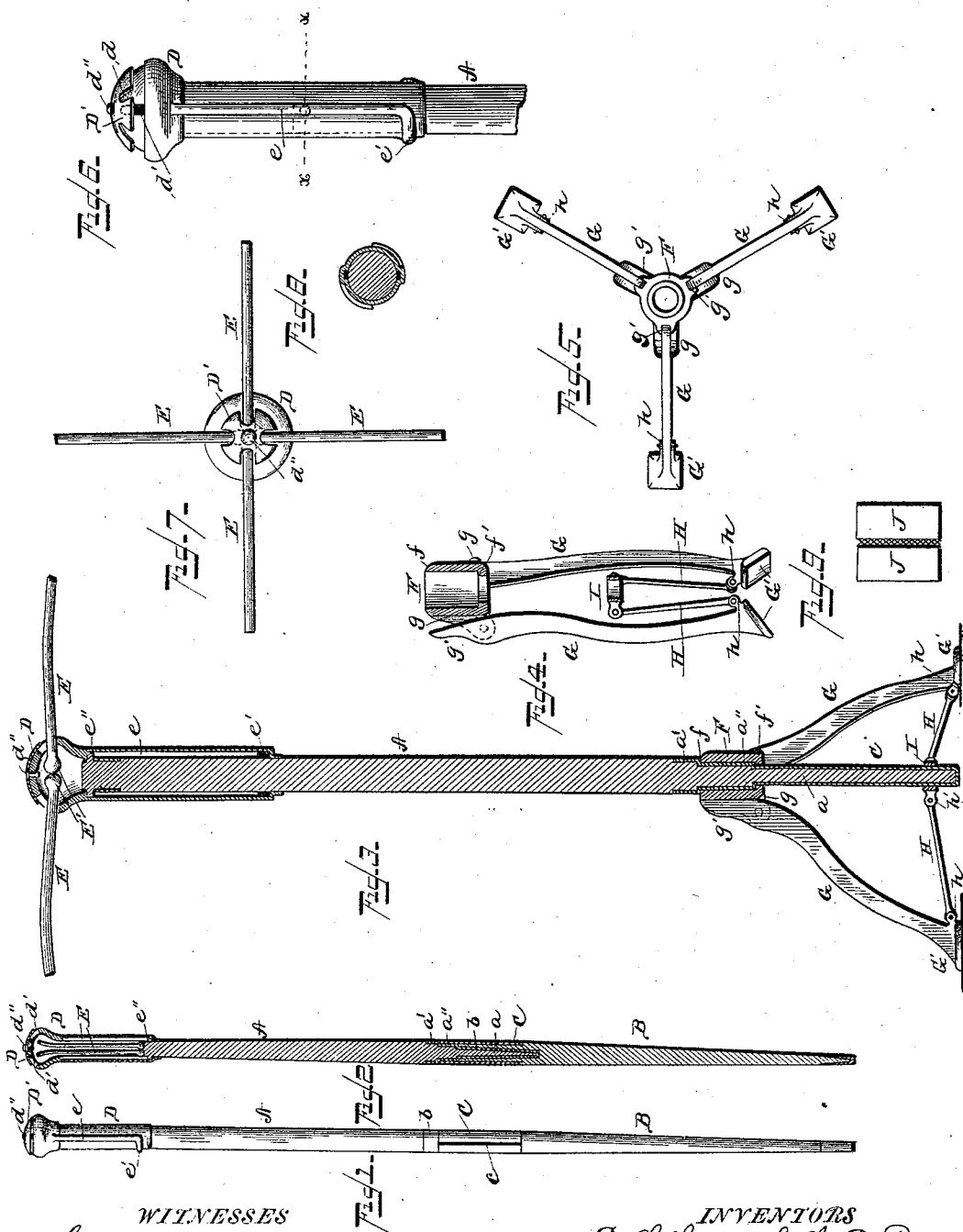


(No Model.)

E. L. SUTTON & C. R. REED.
COMBINED CANE AND CAMP STOOL.

No. 490,416.

Patented Jan. 24, 1893.



WITNESSES

Chas F. Mallard.
S. Brashears Jr.

INVENTORS

E. L. Sutton & C. R. Reed
per Shipley & Brashears
Attorney

UNITED STATES PATENT OFFICE.

EDWARD L. SUTTON AND CHARLEY R. REED, OF STILLWATER, MINNESOTA.

COMBINED CANE AND CAMP-STOOL.

SPECIFICATION forming part of Letters Patent No. 490,416, dated January 24, 1893.

Application filed April 9, 1891. Serial No. 388,292. (No model.)

To all whom it may concern:

Be it known that we, EDWARD L. SUTTON and CHARLEY R. REED, citizens of the United States, residing at Stillwater, in the county of Washington and State of Minnesota, have invented a new and useful Combined Cane and Camp Stool, of which the following is a specification.

Our invention is in the nature of a combined cane and camp stool and has for its object to furnish a combined instrument of improved construction, which, while of a size to be handy for use as a cane, can be readily converted into a camp stool when desired.

With this object in view our invention consists in the improved construction arrangement and combination of parts hereinafter fully described and afterward specifically set forth in the appended claims.

Referring to the drawings Figure 1 is a view in side elevation of the article when parts are in position to form a walking stick or cane. Fig. 2 is a vertical central section through the same. Fig. 3 is a vertical central section of the article converted into a camp stool, the seat being omitted. Fig. 4 is a vertical section through the base, or support of the camp stool, the legs being in their closed position. Fig. 5 is a top plan view of the same with the legs spread open as in Fig. 3. Fig. 6 is a view in side elevation, on an enlarged scale of the upper part of the cane. Fig. 7 is a top plan view of the camp stool as shown in Fig. 3. Fig. 8 is a cross sectional view on the line $x-x$ of Fig. 6. Fig. 9 is a top plan view of one style of seat ready to be placed on the arms when extended as in Fig. 3.

Like letters of reference mark the same parts wherever they occur in the various figures of the drawings.

Our invention, as before stated, is a combined structure which may be used at will as either a camp stool, or as a walking stick or cane, and may be said to consist of three essential parts—first, the structure as shown in Figs. 1 and 2 which is a complete walking stick or cane and contains within it the arms of stretchers for the seat of the camp stool; second, the base or seat for the camp stool as

shown in Figs. 4 and 5; and third, the seat, one variety of which is shown in Fig. 9.

When in use as a cane the base and seat of the camp stool may be folded into a very small compass and stowed away in the pocket, in a valise, or in any other convenient place.

The body of the cane may be made of any material suitable for the purpose, such as wood, hard rubber, &c. and is made in two pieces A and B connected together by a joint when used as a cane. The upper piece A is tenoned, as at a , said tenon having two shoulders as at a' , a'' , and being covered by a metallic cap b of similar shape. The lower part B is provided with an aperture to receive the tenon and when the parts are brought together they are secured in position by a metallic ferrule C, split at c to cause it to act as a spring and firmly hold the parts.

The head of the cane is formed of two parts, being a tubular case D to fit over the top of the part A and adapted to slide thereon, and a cap D' centrally and pivotally secured to the top of the case D. This cap D' is notched around its periphery at d and these notches may be made to register with or cover a series of slots d' in the top of case D or to uncover the same by turning the cap D' upon its pivot pin d'' .

On the inside of case D, are grooves e , having horizontal lower end portions e' , said grooves serving to accommodate pins or a flange e'' projecting from the sides of part A of the cane.

Within the case D are arms E which serve, when extended, as supports for a seat F of the camp stool, said arms projecting out of slots d' , as shown in Fig. 3 when so extended, and being entirely inclosed within the cap D when the structure is used as a cane. They are prevented from being thrown through the slots, out of the case, by heads E'.

The base or support of the camp stool has a main body or sleeve F which fits over the metal covered tenon of piece A the upper, inner edge f which fits against the upper shoulder a' of the tenon a and an inward projecting lower flange which fits under the lower tenon a'' . On its outer sides are formed ears g in which are pivoted legs G, said legs being

formed with shoulders *g'* which lie against the outside of sleeve E when extended and are thus prevented from being extended beyond a given limit. At the lower ends of these legs

5 *G* are formed feet *G'* so shaped that they will be flat when the legs are extended, and having, at their inner edges lugs or ears *h*, to which are pivotally connected the outer ends of braces or ribs *H*, whose inner ends are pivotally connected to ears *h'* on the outside of a sleeve I adapted to fit and slide upon the tenon *a* of part A as shown in Fig. 3. These braces serve to make a rigid structure of the base, keeping the legs from being strained or bent. They are shown as rods, but chains or cables may be used.

The seat *J* may be made of leather, canvas or any other suitable material. It may be made of two pieces, laced or hinged together as in Fig. 9, or of a single piece if desired, and may be round, oval, square or any other suitable shape.

When our devices are in use as a cane, the cap *D'* will be turned so as to cover the slots *d'* in the case *D* so that there will be no danger of the arms *E* starting out. It being desired to change to a camp stool the cap *D'* is turned uncovering the slots *d'*, and the case *D* pressed downward upon the part A until the top of said part A has forced the arms *E* out to the position shown in Figs. 3 and 7 ready to receive and support the seat. The part B and ferrule C are removed from part A and the base of the stool placed in position on the tenon *a* as shown in Fig. 3, (the part B being stowed away in the pocket or elsewhere) and the camp stool is ready for use. A reversal of these actions again brings the article back to the form of a cane when desired.

Having thus fully described our invention what we claim as new and desire to secure by Letters Patent of the United States is

1. In combination the main part A, the folding arms carried at the upper end thereof the means for operating them both to fold and unfold consisting of the sliding case *D* having openings at its upper end, the ends of said arms and the openings being arranged in such relation to each other that the sliding movement of the case will cause the arms to engage the said openings and thus unfold or fold as the case is moved,

the said operating case extending over the top of the arms and serving to inclose the same and locking means for holding the case substantially as described. 55

2. In combination the main part A, the folding arms resting loosely on the upper end thereof and having enlarged, unattached lower ends, and the sliding case having perforations adapted to permit the passage of the arms but not the enlarged heads, the said casing entirely inclosing the arms, when in raised position and the loose arms being in contact with each other at their enlarged heads, whereby they are maintained in correct position in relation to each other when within the sliding case, substantially as described. 60

3. In combination, the part A having projecting flanges or pins *e''*, the case *D* sliding on part A, having slots *d'* and grooves *e, e'*, to engage said projections the headed arms *E* within said case adapted to be projected through the slots *d'*, and the cap having notches *d* and pivoted centrally to case *D* at *d''* as set forth. 65

4. The base for the camp stool consisting of the sleeve *F* having ears *g* and opening *f'*, the legs *G* pivoted to said ears and provided with flanges *g'* and feet *G'*, the ears *h* on said feet, the sleeve *I* having ears *h'*, the braces pivoted to and connecting the feet with sleeve *I*, the part A supported in said sleeves *F* and *I*, and carrying the sliding case *D* and the arms *E*, substantially as set forth. 70

5. The combined cane and camp stool herein described consisting of a two part cane jointed at the middle, the upper part provided with a head carrying adjustable arms for supporting the seat, and with a lower tenon end, in combination with the base consisting of two sleeves formed to fit said tenon, and leg and braces connecting said sleeves as set forth. 75

In testimony whereof I have hereunto set my hand this 22d day of September, 1890. 80

E. L. SUTTON.

In presence of—

A. L. BRATSCH,
ALBERT ZARKE.

In testimony whereof I have hereunto set my hand this 29th day of September, 1890.

CHARLEY R. REED.

In presence of—

THEODORE B. HOLMES,
P. W. WALKER.