

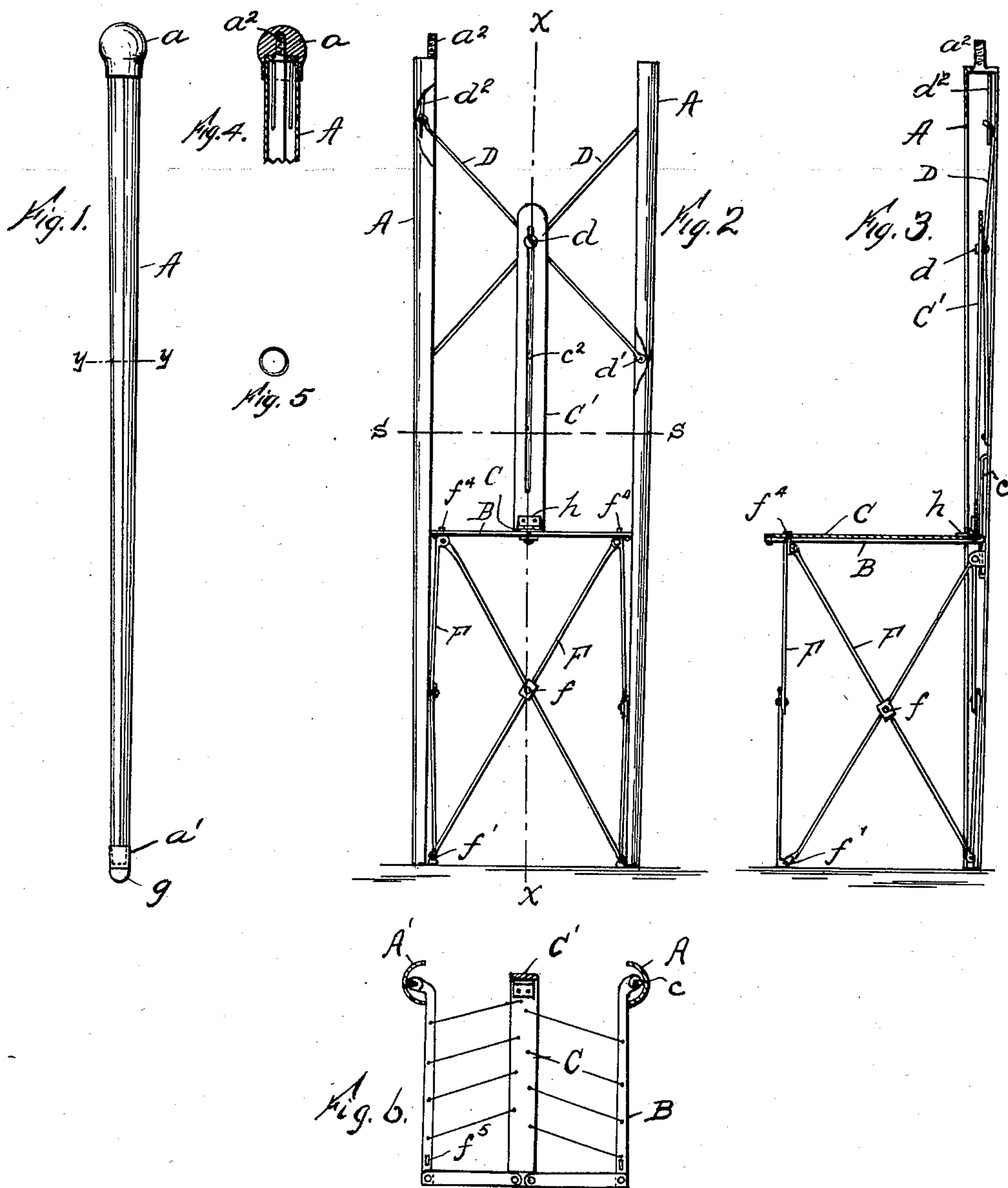
No. 628,584.

Patented July 11, 1899.

E. M. KUTZ & A. S. KELCHNER.
COMBINED CHAIR AND CANE.

(Application filed Apr. 5, 1899.)

(No Model.)



Ellsworth M. Kutz,
and Allen S. Kelchner, Inventors

Witnesses
Katharine Kelly,
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UNITED STATES PATENT OFFICE.

ELLSWORTH M. KUTZ, OF READING, AND ALLEN S. KELCHNER, OF
FLEETWOOD, PENNSYLVANIA.

COMBINED CHAIR AND CANE.

SPECIFICATION forming part of Letters Patent No. 628,584, dated July 11, 1899.

Application filed April 5, 1899. Serial No. 711,789. (No model.)

To all whom it may concern:

Be it known that we, ELLSWORTH M. KUTZ, residing at Reading, and ALLEN S. KELCHNER, residing at Fleetwood, in the county of Berks and State of Pennsylvania, citizens of the United States, have invented certain new and useful Improvements in a Combined Chair and Cane; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in combined chairs and canes.

The object of the invention is to produce a chair that is capable of being compressed into a space equal in size and appearance to an ordinary cane, at the same time serving as a substantial portable chair.

The invention is fully described in the following specification and clearly illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of our chair folded in the form of a cane. Fig. 2 is a front elevation of our chair opened. Fig. 3 is a vertical sectional view on line $x x$, Fig. 2. Fig. 4 is a sectional view of the removable cane-head. Fig. 5 is a cross-section on line $y y$ of Fig. 1. Fig. 6 is a section of Fig. 2 on lines $s s$.

The body of the cane A, which constitutes the main uprights of the chair when opened, is formed of a split tube of any light metal, which when closed is of circular cross-section.

The head or handle a of the cane, as well as the tip-piece a' , is removable, being adapted to fit snugly over the tube and is screw-threaded internally to take the screw-threaded lug a^2 , which projects from one piece of the tube A.

The seat is formed of a folding frame B, slidably secured to rods c in the tube-sections and having a central brace C hinged at its rear end to a back brace C' . The brace C' has a slot c^2 extending nearly its whole length, in which travels a pin d , which pin forms the swivel for the two back brace-arms D. These arms D are pivotally secured to the tube-sections at their lower ends d' , and their upper

ends slide on rods d^2 , depending from the inside of the head of the tube-sections.

The supporting-arms F for the seat are pivotally secured to each other at their crossing-points f , near the middle thereof, and also at their ends f' to each other and to the tube-sections. The front arms are provided with a catch f^4 , adapted to enter a slot f^5 in the seat-frame and lock it.

The seat-frame, as well as other parts, may be provided with any suitable braces, if desired.

The body of the chair may be made of any light metal, such as spring steel or aluminium, and the seat may be formed of canvas or a series of spring-wires strung on the frame thereof.

The operation is as follows: When it is desired to open the cane to the form of a chair, the head a and tip-piece a' are removed, the semicircular tube-sections are spread apart, opening the seat-frame B, together with the arms D and F, the seat is pushed downward, allowing the pin d to travel nearly to the top of the slot c^2 , the seat-frame is pressed forward on the hinge h , and the supporting-arms drawn out to the front of the seat, when a slight pressure will snap it over the catches f^4 and the chair is ready for use. When it is desired to refold it, the operation is reversed.

The tip-piece is preferably formed with a hard-rubber plug g .

The ease with which our present construction may be readily converted from a cane to a comfortable chair, or vice versa, is evident, as is also the fact of saving space in shipping.

Having thus fully described our present invention, its use, and operation, what we claim, and desire to secure by Letters Patent, is—

In a combined chair and cane, a split tube A, head and tip pieces adapted to screw thereon, a folding seat-frame B, having slots f^5 therein, slidably attached to the inside of said tube-sections, a slotted back brace c' , to which the seat-frame is hinged, folding arms pivoted together at their crossing-points and provided with a pin adapted to slide in the slotted back

brace, said arms being secured pivotally at one end and slidably at their other ends to the tube-sections, folding arms F pivoted to the seat-frame and formed with catches f^4 ,
5 adapted to enter the slots f^5 on the seat-frame, the whole adapted to fold together and enter the space inside said tube, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ELLSWORTH M. KUTZ.
ALLEN S. KELCHNER.

Witnesses:

ED. A. KELLY,
JNO. G. L. BROWNWELL.