July 10, 1951 V. JANSEN 2,560,447

FOLDING SEAT WHICH CAN BE CARRIED AS A CANE

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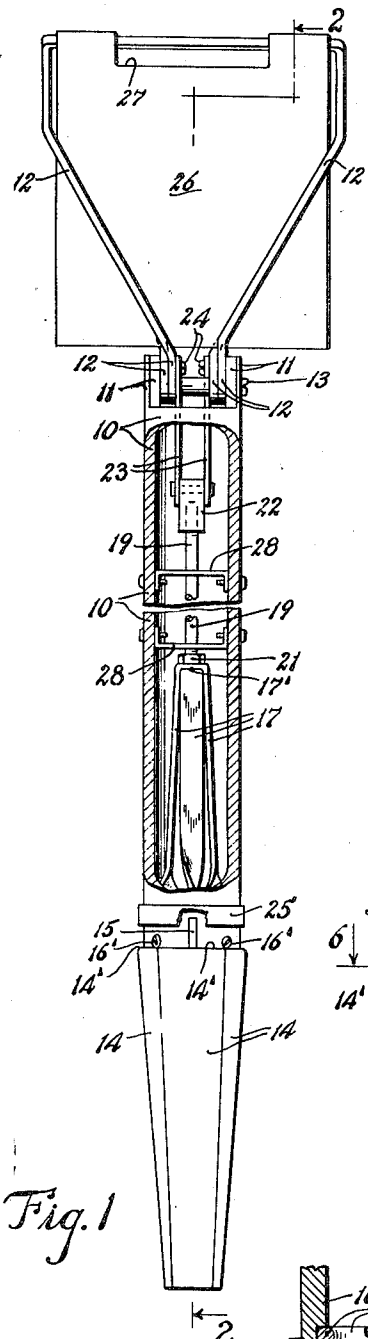


Fig. 1

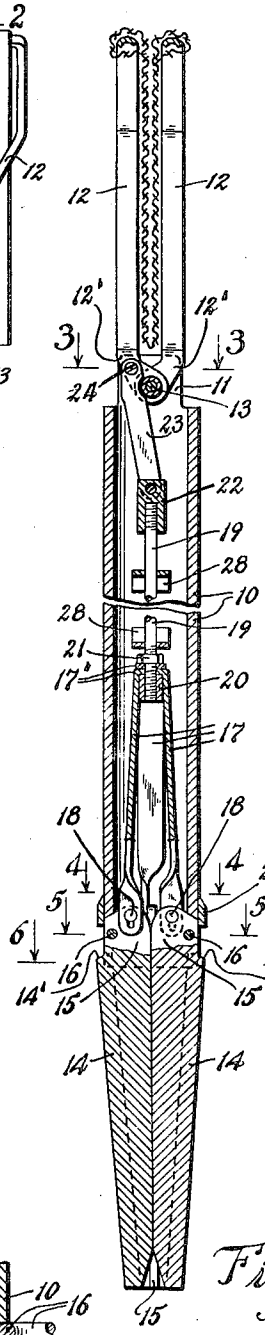


Fig. 2

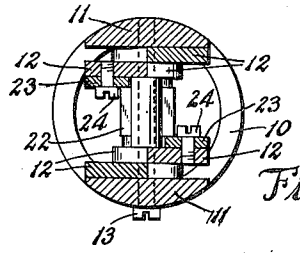


Fig. 3

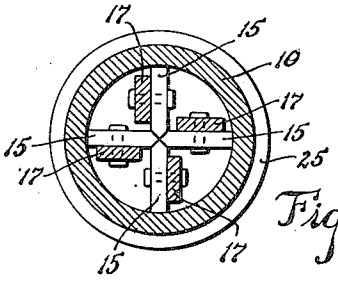


Fig. 4

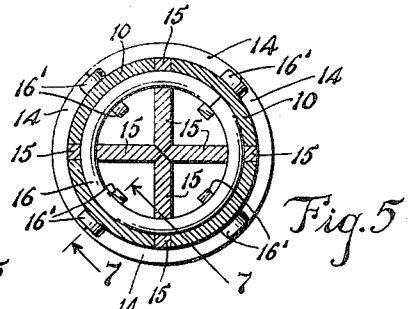


Fig. 5

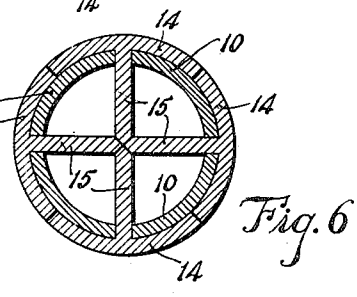


Fig. 6

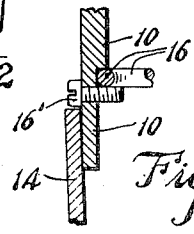


Fig. 7

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FOLDING SEAT WHICH CAN BE CARRIED AS A CANE

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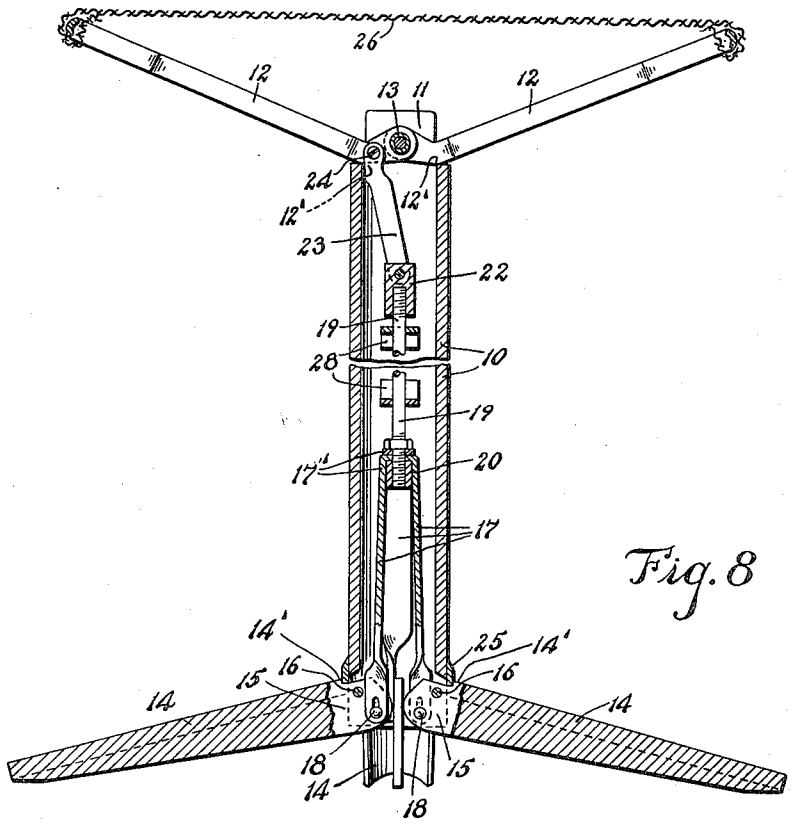


Fig. 8

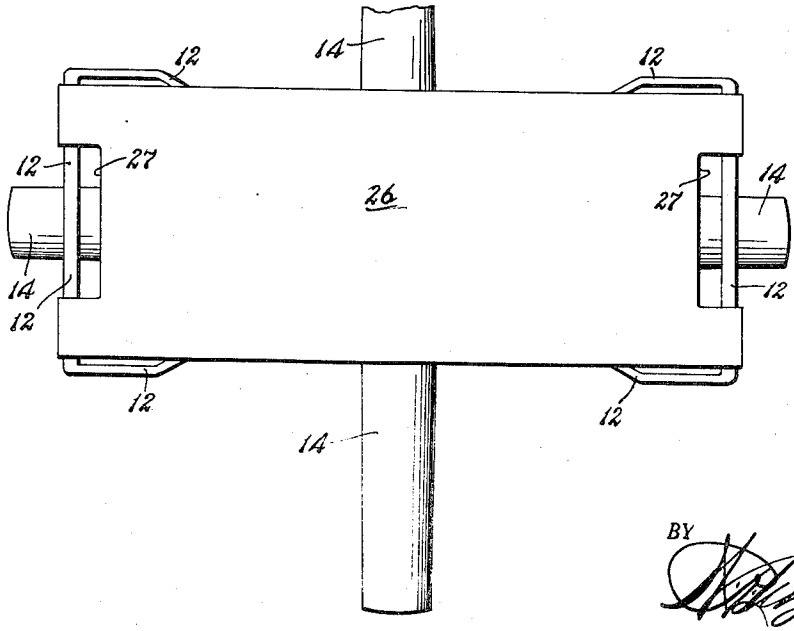


Fig. 9

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FOLDING SEAT WHICH CAN BE CARRIED AS A CANE

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Application November 15, 1948, Serial No. 60,115

4 Claims. (Cl. 155—135)

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This invention relates to folding seats which can be carried as a cane, and it has among its salient objects to provide a folding seat having a tubular body with seat-supporting arms pivotally connected in the upper end thereof and foldable together above said body, and having spreading legs or feet members, pivotally connected in the lower end of said body, and foldable together below said body and in alinement therewith, said seat supporting arms and said leg members being operatively connected together through said tubular body, whereby the operation of one automatically operates the other from opened to closed positions and vice versa; to provide in such a folding seat, improved mechanical hinge connections between the seat-supporting arms and the feet or leg members, whereby there is free and easy movement of said parts, both in opening up said seat for use as such, or in closing it to folded condition, to be carried by its seat arms much as a cane is carried.

In order to explain my invention, I have illustrated one practical embodiment thereof on the accompanying two sheets of drawings, and in which:

Figure 1 is a side view of a folding seat embodying my invention, in folded condition, with a part of the tubular body broken away to show the interior connections;

Figure 2 is an edge view, as seen in section, taken on the line 2—2 of Fig. 1;

Figures 3, 4, 5 and 6 are cross sectional views taken on the corresponding cross sectional lines on Fig. 2, but showing full cross sectional views;

Figure 7 is a sectional detail on line 7—7 of Fig. 5;

Figure 8 is a longitudinal sectional view through the body, feet and arms, showing the seat in open condition, the middle portion being broken out to shorten the figure; and

Figure 9 is a plan view looking down on the open seat, as seen in Fig. 8.

Referring now in detail to the drawings, my invention as here shown for descriptive purposes includes a tubular body 10, which can be of any attractive and suitable material, as metal or plastic.

The upper end of said tubular body, at opposite sides, has two extensions or wings, as 11, 11, with two Y-shaped, seat-supporting members 12, 12, pivotally connected at their lower ends between said extensions or wings 11, 11, on a pivotal bolt 13, as clearly seen in Figs. 1, 2 and 3.

The connected ends of said seat-supporting members 12, 12, are shown with shoulders 12' formed thereon to rest on the upper opposite edges of the tubular body, when said arms are out in their supporting positions, as seen in Fig. 8.

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At the lower end of said tubular body 10, four short legs or feet, as 14, 14, of tapering form and curved in cross section, are pivotally connected at their upper ends, as by means of straight middle web-like extensions, as 15, 15, seen in cross section in Figs. 5 and 6, a pivot split ring as 16, serving as the pivot, and which ring is held in place by short screw bolts, as 16', 16', and seen in Figs. 2, 7 and 8.

Two interfitting hair-pin like spring members, 17, 17, have their lower ends twisted and pivotally connected with said web extensions 15, 15, as at 18, 18, with pin and slot connection as shown.

The upper arched ends of said hair-pin members overlap each other, as at 17', and are connected together by means of a bolt 19, threaded through said members 17, 17, and into a block or nut 20, in the inner member 17, with a lock nut 21 above said members at 17', to more firmly secure them together.

The upper end of said bolt 19, is threaded into a head or block 22, to which is pivotally connected the lower ends of two links, as 23, 23, the upper ends of which links are connected, as at 24, 24, to the lower connected ends of the two Y-shaped seat-supporting members 12, 12, to one side of their hinge pin 13, as clearly shown in Figs. 2 and 8.

An outer ring 25 is placed around the lower end of the tubular body 10, in position to receive the abutment of the upper shoulders 14', 14' of the legs 14, 14, as they are spread out into supporting positions, and as seen in Fig. 8, forming a bearing therefor and making a more rigid structure than if there were looseness in connection with the upper or anchored ends of said supporting legs.

A seat member 26, which may be of canvas, or other material, is shown, with cut out portions, as 27, 27, at the sides to expose the seat members for a hand grip, as will be clear from Fig. 1.

In the tubular body 10, spaced apart longitudinally of said body, are two angle members, as 28, 28, to serve as guides for the connecting bolt 19. The guides hold the parts in good operating positions and give additional strength to the structure.

I do not limit the invention to the details of construction and arrangement shown for explanatory purposes, except as I may be limited by the hereto appended claims forming a part of this application.

I claim:

1. In a folding seat, a tubular body, a pair of Y-form seat-supporting arms pivotally connected together at their lower stem ends in the upper open end of said tubular body, a plurality of short legs of tapering form and curved in cross section with a longitudinally extending web member in the middle of each, said legs being pivotally connected by the upper ends of said web members to the sides of said tubular body, in the lower end thereof, an abutment ring around the lower end of said body and a shoulder on the outer upper end of each leg to bear against said abutment ring when said legs are in open positions, and adjustable connecting links from the connected ends of said supporting arms, to one side of their pivot, and to the pivoted ends of said short legs and to one side of their pivots, whereby said seat supporting arms and said short pivoted legs are simultaneously operated together into and out of operating positions.

2. A folding seat which can be carried as a cane and having a tubular body, a pair of Y-shaped seat-supporting members, pivotally connected at their stem ends in the upper end of said body, a folding seat member connected at its opposite ends to said Y-shaped members, and having cut-out portions on said Y-shaped members to form a hand grip when said members are folded together, a plurality of short legs pivotally connected at their upper ends to the sides of the lower end of said tubular body to be opened outwardly into supporting positions, operating connections through said tubular body to said seat-supporting members near their pivots and to said short legs near their pivots, whereby movement of said seat supporting members to operating positions simultaneously moves said short legs for operating them together from folded to open operating positions.

3. In a folding seat of the character referred to, a tubular body, a pair of Y-shaped seat-supporting members pivotally connected by their stem ends in the upper end of said body and having shoulder portions to rest on the upper end of said body when said arms are opened out to operating condition, a plurality of short legs pivotally connected together at their upper

ends in the lower end of said body, to be opened out into supporting positions, said legs having at their upper outer ends shoulder portions to bear against the lower end of said body when in open position, adjustable operating connections from said seat-supporting members to said short legs, through said tubular body, for operating said seat-supporting members and said short legs together into and out of operating positions, the connections between the ends of said seat supporting members and said legs including a pin and slot connection with the upper end of each of said legs, to one side of the pivot thereof, whereby movement of said members automatically moves said short legs therewith into open and folded conditions.

4. In a folding seat, a tubular body having two extensions from the opposite sides of the upper end, two Y-shaped seat-supporting arms pivotally connected together at their lower ends between said extensions in the upper open end of said body, a pair of links connected at their upper ends to the pivoted ends of said arms, at opposite sides of their pivot, and extended down into said tubular body, a plurality of short legs each having its upper end pivotally connected at one side thereof to the side of the lower end of said tubular body, an adjustable connection from the lower ends of said links above, including two hair-pin like spring members, to the pivoted ends of said legs, to one side of their pivot supports, whereby the raising of said seat-supporting arms to folded positions simultaneously moves said short legs into folded condition.

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The following references are of record in the file of this patent:

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