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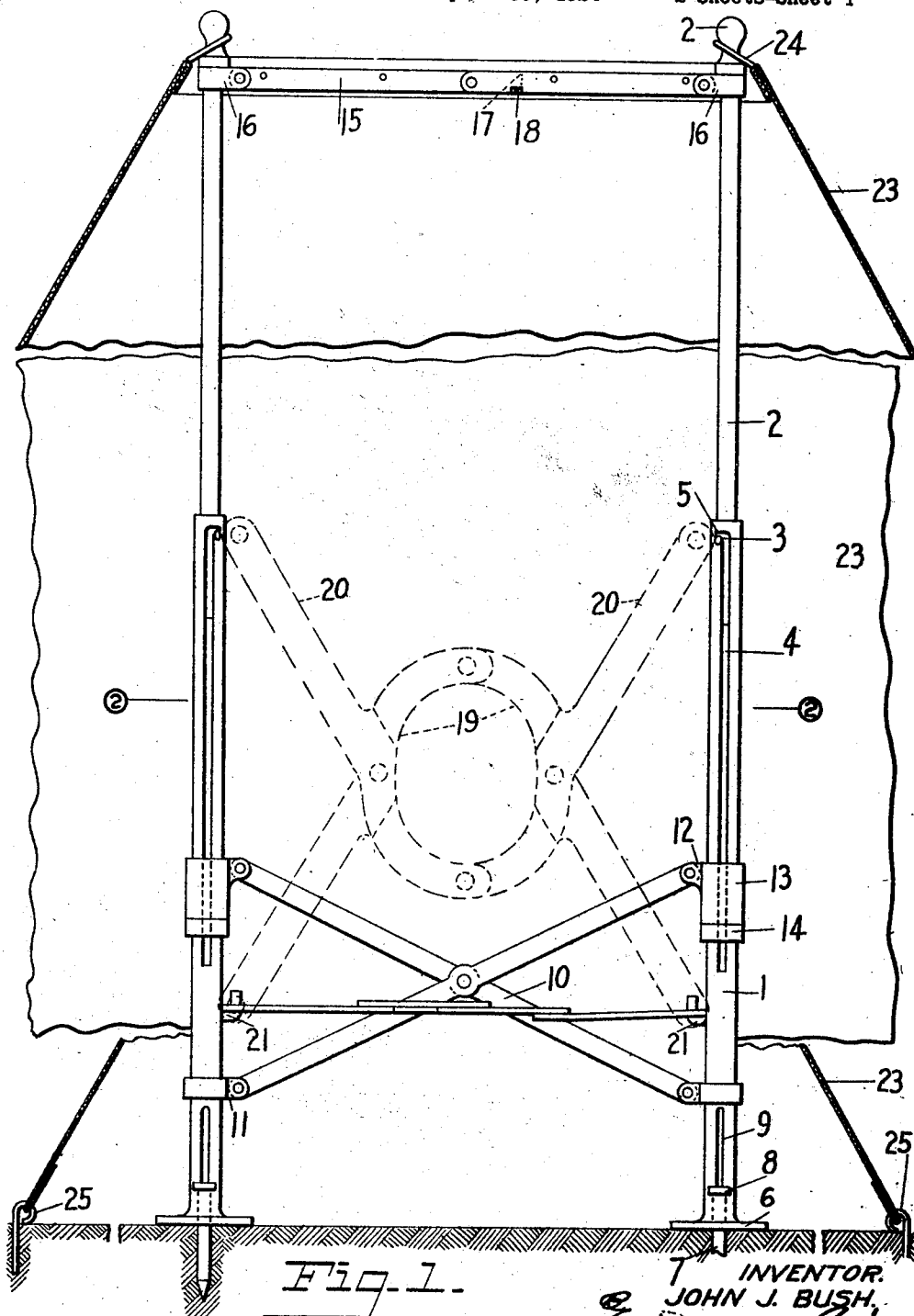
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J. J. BUSH

FOLDABLE TENT

Filed April 30, 1924

2 Sheets-Sheet 1



Feb. 23, 1926.

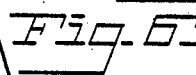
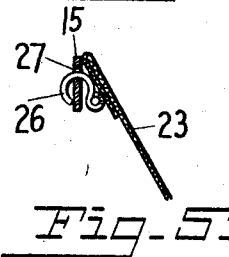
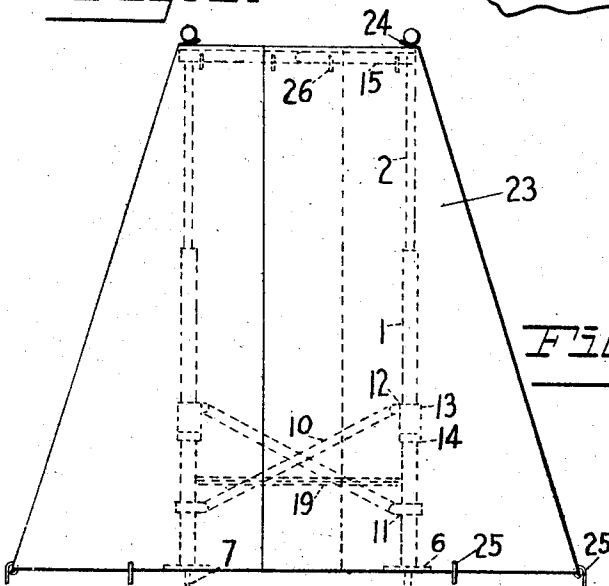
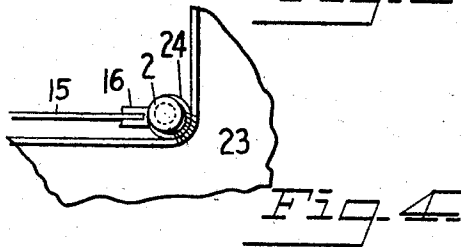
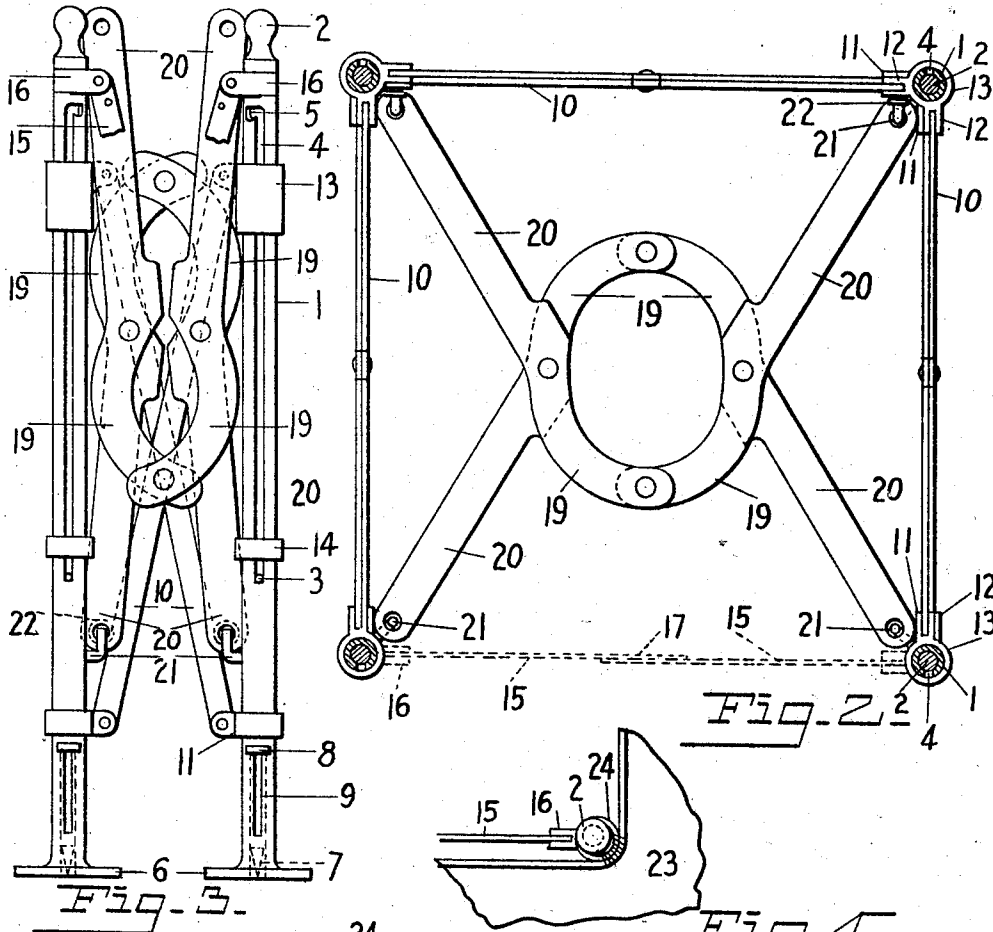
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

JOHN J. BUSH, OF DAYTON, OHIO.

FOLDABLE TENT.

Application filed April 30, 1924. Serial No. 710,120.

To all whom it may concern:

Be it known that I, JOHN J. BUSH, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Foldable Tents, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a foldable tent and is designed more particularly for use as a camp toilet or a portable dressing room for camps, bathing beaches and the like.

15 One object of the invention is to provide a tent frame which can be quickly and easily folded into a small compact bundle or set up in a position to receive the canopy.

20 A further object of the invention is to provide such a tent frame with a seat which may be folded with the frame when the latter is folded.

25 A further object of the invention is to provide such a structure in which the several parts will be permanently connected one to the other, thereby not only avoiding the danger of loss of parts but also facilitating the setting up of the structure.

30 A further object of the invention is to provide a structure which will be simple in construction, of a strong durable character and which can be produced at a relatively low cost.

Other objects of the invention will appear as the device is described in detail.

35 In the accompanying drawings Fig. 1 is a front elevation of a tent embodying my invention, with the canopy partly broken away; Fig. 2 is a transverse sectional view taken on the line 2—2 of Fig. 1; Fig. 3 is a front elevation, partly broken away, of the frame in its folded position; Fig. 4 is a detail view of the upper end of one of the uprights, showing the means for connecting the canopy thereto; Fig. 5 is a sectional detail view, showing the means for connecting the tent flaps to the frame; and Fig. 6 is a front elevation of the tent as a whole with the flaps closed.

45 In these drawings I have illustrated one embodiment of my invention and have shown the tent frame as comprising a plurality of upright members connected one with the other in such a manner that they may be moved one toward the other to fold or collapse the frame. Supported by the frame is a seat of such a construction that

it will be folded upon itself when the frame members or uprights are moved one toward the other. A suitable tent cover or canopy is connected with the upper portion of the frame and extends downwardly about the several sides thereof to enclose the frame structure. It will be understood, however, that the structure as a whole may take various forms without departing from the spirit of the invention.

50 In that particular form of the structure here shown the tent frame comprises four upright members which are longitudinally extensible and each of which, in the present instance, consists of a lower tubular section 1 and an upper section 2 slidably mounted in the tubular section and having a stud or pin 3 arranged to travel in a vertical slot 4 in the wall of the tubular section and to enter a transverse slot 5 near the upper end of the tubular section to retain the two sections of the upright in their extended positions. The lower end of each upright member is provided with a part, such as a base 6, adapted to rest upon the ground, and with a prong or spike 7 projecting downwardly from this base and adapted to enter the ground. Preferably this prong is slidably mounted in the lower end of the tubular section of the upright and has secured thereto an operating member or foot piece 8 which extends through a vertical slot 9 in the lower portion of the lower or tubular section and is so arranged that it may be engaged by the foot of the operator to press the prong into the ground and thus retain the upright member in the desired position.

55 The several upright members are connected one to the other by suitable folding connecting devices which may take various forms. As here shown, each connecting device comprises intersecting bars 10 pivotally connected one to the other at their point of intersection. The lower ends of the respective bars are pivotally mounted on the uprights, the pivotal connections being preferably fixed with relation to the uprights. Preferably lugs 11 are rigidly secured to the lower sections of the respective upright members and the ends of the respective intersecting bars are pivotally connected with these lugs. The upper ends of the respective intersecting bars are pivotally and slidably connected to the upright members and, as here shown, the upper end of each bar is pivotally connected to lugs

12 carried by a sleeve 13 slidably mounted on the tubular section of one of the upright members, this member being provided with a stop, such as a collar 14, to limit the downward movement of the sleeve. Thus by moving the sleeves upwardly on the upright members and spreading apart the adjacent ends of the intersecting connecting bars the two upright members may be moved one toward the other. Connecting devices of this character are interposed between the two rear uprights and between each rear upright and the corresponding front upright, but the space between the front uprights is left open to provide an entrance to the tent structure. The front uprights are retained in their proper spaced relation by the prongs 7 and by a toggle 15 arranged between the upper ends thereof. As here shown, the outer ends of the two members of this toggle are pivotally connected to lugs 16 rigidly secured to the upper sections of the respective uprights and are so arranged that the inner or pivotally connected ends of these members will move downwardly to permit the two uprights to be moved toward one another. One of the members of the toggle has its end portion extending beyond its point of pivotal connection with the other member, as shown at 17, and is provided with a lug 18 to limit the upward movement of the two members of the toggle.

The frame structure is provided with a foldable seat of such a character that it may be supported on the frame structure and will fold with that structure when the latter is folded. As here shown, the seat comprises a substantially annular structure made up of four sections or curved bars 19, the adjacent ends of which overlap and are pivotally connected one to the other. Extending from the lateral ends of each pivoted member of this seat is an arm 20 which projects diagonally of the frame to a point adjacent to one of the uprights and means are provided whereby these arms may be connected with the uprights to support the seat in a substantially horizontal position. The connection between the rearwardly extending arms 20 and the respective uprights is preferably a permanent connection but is pivotal in character so that the seat structure may be moved upwardly about these pivotal connections into a position substantially parallel with the vertical plane extending through the two rear uprights, the connections between the forwardly extending arms 20 and the forward uprights being detachable to permit of this movement of the seat. When the seat is in its upright position, as shown in dotted lines in Fig. 1, the movement of the rear uprights one toward the other will cause the several side members to move about their pivotal connections with relation one

to the other and to be folded along with the uprights, as shown in Fig. 3, it being noted that the seat folds in substantially the plane thereof. The connections between the several arms 20 and the respective uprights may be of any suitable character and, in the present instance, each arm is provided near its end with an aperture adapted to receive the upturned end of a lug or pin 21 rigidly secured to and extending inwardly from the respective uprights. The lugs 21 on the rear uprights are so shaped as to permit of the pivotal movement of the arms and are provided with heads 22 to prevent the removal of the arms therefrom. The upturned ends of the lugs 21 on the front uprights extend upwardly and are unobstructed so that the forward arms may be readily engaged with and disengaged from the same.

A suitable tent cover or canopy, preferably of duck or canvas, is connected with the tent frame at the upper end thereof and extends downwardly about the several sides thereof to a position near the ground. This canopy, which is here shown at 23, is detachably connected with the tent frame and is preferably provided with rings 24 adapted to hook over the upper ends of the uprights, thus enabling the canopy to be quickly and easily connected with the frame and properly positioned with relation thereto. The lower edges of the canopy are provided with pins or stakes 25 which may be pressed into the ground to properly secure this lower edge of the canopy. The canopy is preferably in one piece and its vertical edges overlap at the front of the frame and are secured at their upper edges to the toggle 15. This connection is preferably a detachable one and may consist of hooks 26 (Figs. 5 and 6) permanently attached to the canopy and adapted to enter the apertures 27 in the toggle 15, the edges of the canopy overlapping to provide a secure closure.

It will be apparent from the foregoing description that I have provided a foldable tent of this character which is very simple in its construction, which is light in weight and of a strong durable character and which may be quickly folded into a small compact bundle and likewise may be quickly and easily extended or set up and the canopy applied thereto. The seat is of such a character that it can be folded and extended along with the frame and may be quickly moved into and secured in its operative position. The whole structure is of such a character that it can be manufactured at a relatively low cost.

While I have shown and described one embodiment of my invention I wish it to be understood that I do not desire to be limited to the details thereof as various modifications may appear to a person skilled in the art,

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

1. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other to collapse said structure, and a seat supported by said frame and comprising parts movable one toward the other to permit said seat to be folded when said structure is collapsed.

2. In a structure of the character described, a foldable frame comprising upright members, foldable devices connecting said upright members one with the other, a seat foldable with said frame members, and means for connecting said seat with said frame independently of said connecting devices.

3. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other to collapse said frame, and a seat supported by said frame, movable into a plane substantially parallel with the vertical plane extending through two of said upright members and comprising parts movable with relation one to the other when the last mentioned upright members are moved one toward the other.

4. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other to collapse said structure, a seat, and means for supporting said seat on said upright members, said seat being foldable with said upright members when the latter are moved toward each other.

5. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other to collapse said structure, a seat, and supporting members for said seat permanently connected with two of said upright members and movable one toward the other when the last mentioned upright members are moved one toward the other.

6. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other to collapse said structure, a seat, a plurality of supporting members for said seat, said supporting members being movable with relation one to the other, and means for connecting said supporting members with the upright members of said frame.

7. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other to collapse said structure, a seat, a plurality of supporting members for said seat, said supporting members being movable with relation one to the other, and means for pivotally connecting a part of said supporting members with said frame at

one side of said seat and for detachably connecting another part of said supporting members with said frame at the other side of said seat.

8. In a structure of the character described, a foldable frame comprising upright members movable one toward the other, a substantially annular seat comprising a plurality of members movably connected one with the other to permit said members to move one toward the other in substantially the plane of said seat, and means for supporting said seat from said frame.

9. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other, a seat comprising a plurality of members arranged to form substantially an annulus and pivotally connected one to the other for movement toward and from each other in substantially the plane of said seat, and means for supporting said seat on said frame.

10. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other, a seat comprising a plurality of members arranged to form substantially an annulus and pivotally connected one to the other for movement toward and from each other in substantially the plane of said seat, and each having a part adapted to be connected with one of said upright members.

11. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other, a substantially annular seat comprising a plurality of members movably connected one to the other to permit said members to move one toward the other in substantially the plane of said seat, means for pivotally connecting said seat with a part of said upright members, for movement about a horizontal axis, and means for detachably connecting said seat with others of said upright members.

12. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other, a seat comprising a plurality of curved bars arranged to form substantially an annulus and having their adjacent ends pivotally connected one to the other, and arms rigidly secured to the respective seat members and extending from the lateral edges of said seat to the respective upright members, and means for connecting said arms with said upright members.

13. In a structure of the character described, a foldable frame comprising upright members movable toward and from each other, a seat comprising a plurality of curved bars arranged to form substantially an annulus and having their adjacent ends pivotally connected one to the other, arms

rigidly secured to the respective seat members and extending from the lateral edges of said seat to the respective upright members, and means for pivotally connecting two of said arms with the respective upright members at one side of said frame and for detachably connecting the other arms with the upright members at the opposite side of said frame, whereby said seat may be moved upwardly about said pivotal connections and folded with said frame.

14. In a structure of the character described, a foldable frame comprising extensible upright members, foldable connecting devices interposed between said upright members on three sides of said frame, the fourth side of said frame being open, a toggle connecting the upper ends of said upright members at the open side of said frame, and a foldable seat pivotally connected on a horizontal axis with the upright members at one side of said frame and detachably connected with the upright members at the opposite side of said frame.

15. In a structure of the character described, a foldable frame comprising a

plurality of extensible upright members, foldable connecting devices interposed between adjacent upright members, a foldable seat supported by said frame, and a canopy having means for detachably connecting the same with the upper end of said upright member.

16. In a structure of the character described, a foldable frame comprising a plurality of extensible upright members, foldable connecting members interposed between said upright members on three sides of said frame, the fourth side being open, a toggle connecting the upper ends of the upright members at the open side of said frame, a foldable seat, means for supporting said seat on said upright members, a canopy arranged about said frame and having means for supporting the same from said upright members, and means for supporting the vertical edges of said canopy in overlapping relation from said toggle.

In testimony whereof, I affix my signature hereto.

JOHN J. BUSH.