W. R. PHILLIPS.

TENT.

APPLICATION FILED MAY 29, 1914.

1,127,087.

Patented Feb. 2, 1915.

3 SHEETS—SHEET 1.

Fig. 1

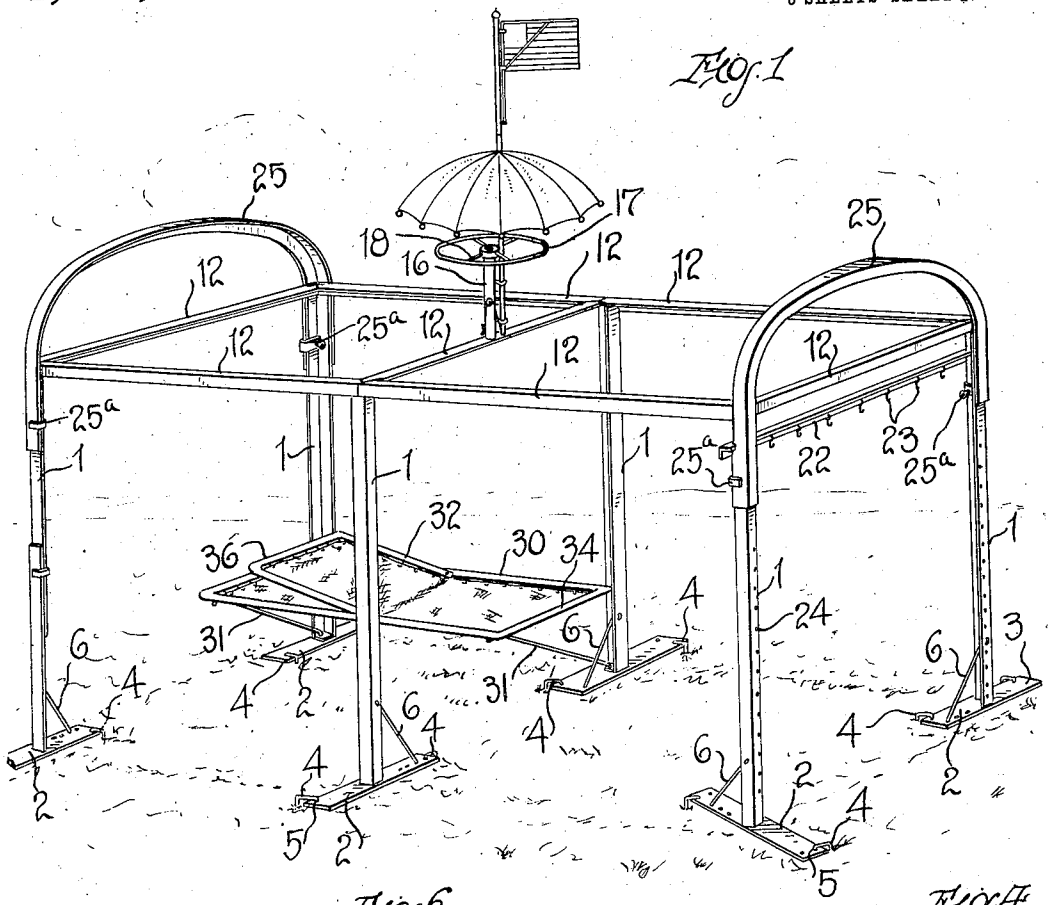


Fig. 6

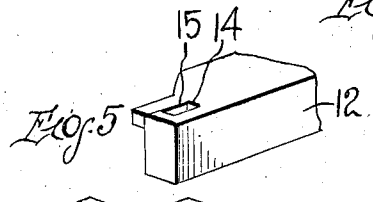


Fig. 5

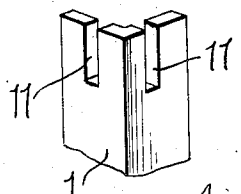
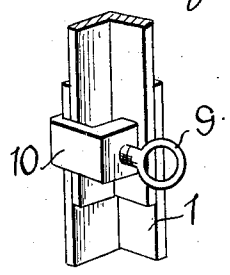


Fig. 3

Fig. 4



Witnesses

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3 SHEETS—SHEET 2.

Fig. 2

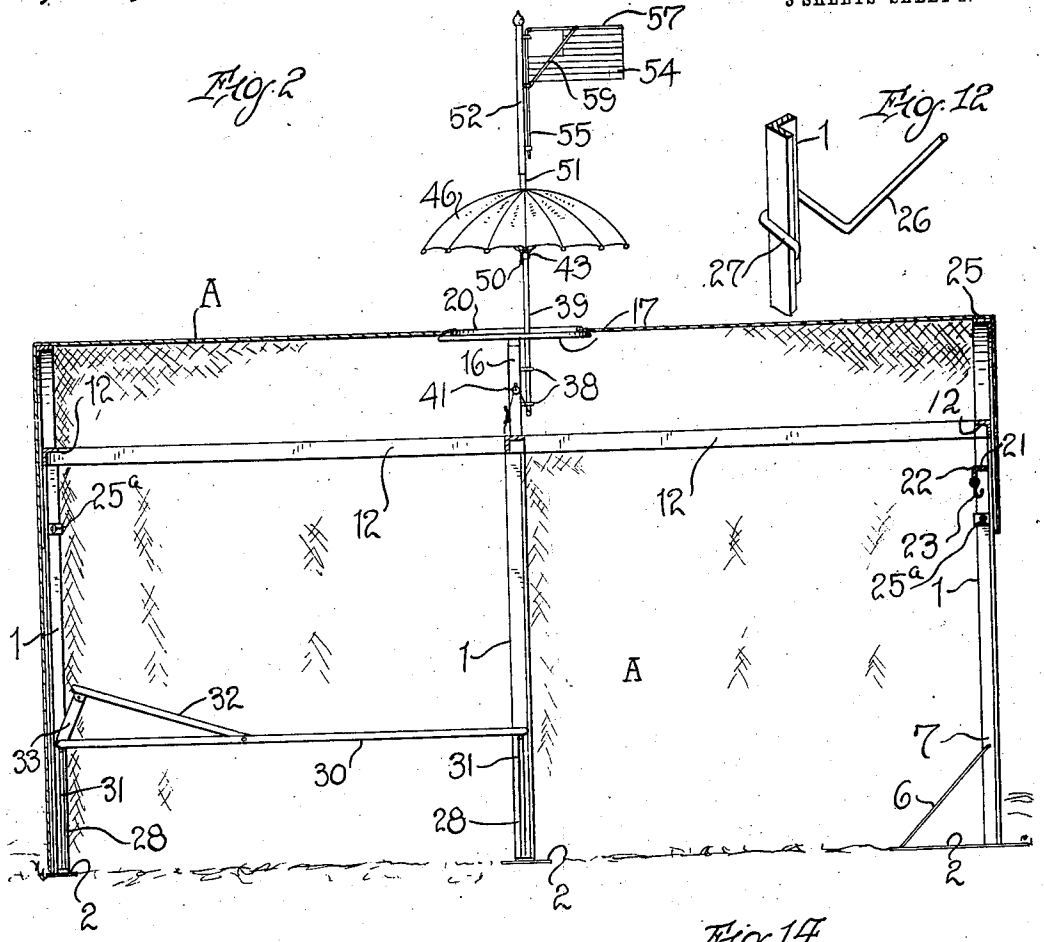


Fig. 12

Fig. 13

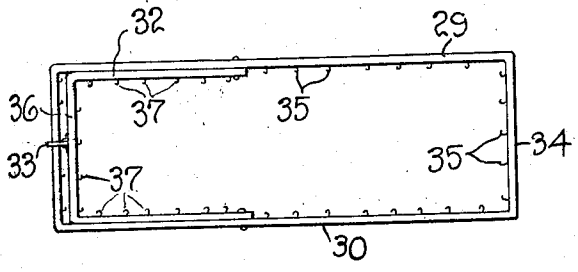
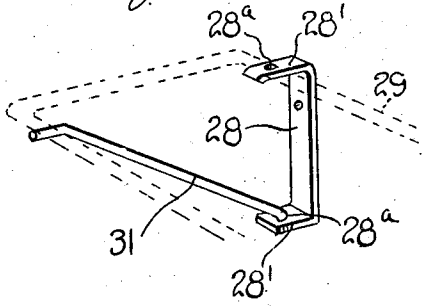


Fig. 14



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APPLICATION FILED MAY 29, 1914.

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3 SHEETS—SHEET 3.

Fig. 9

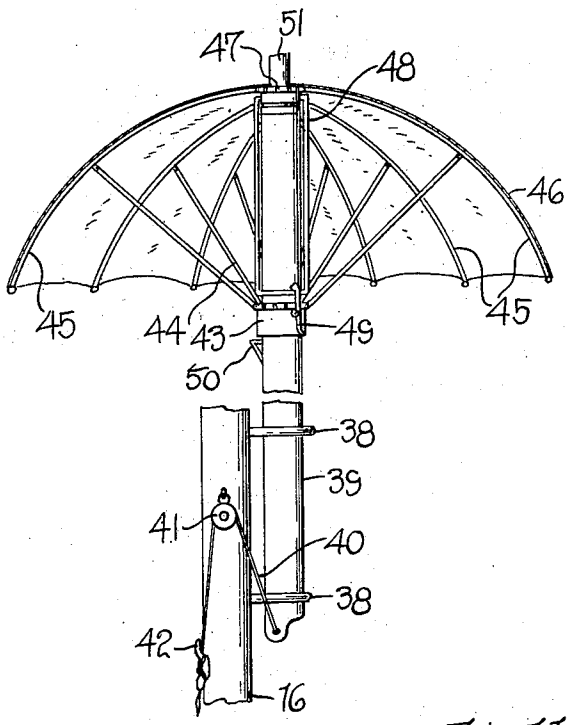


Fig. 10

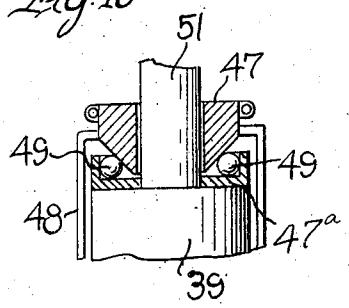


Fig. 8

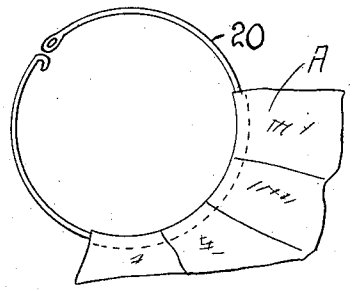


Fig. 11

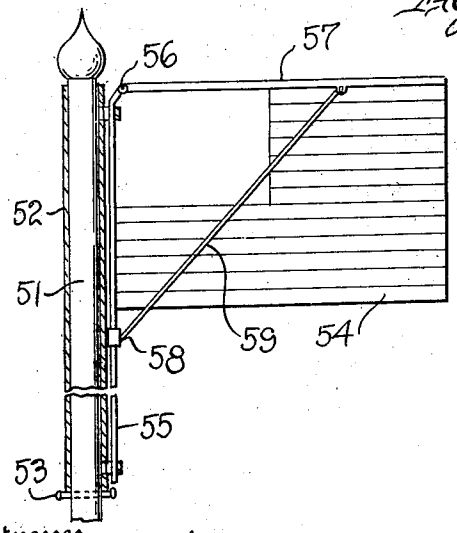
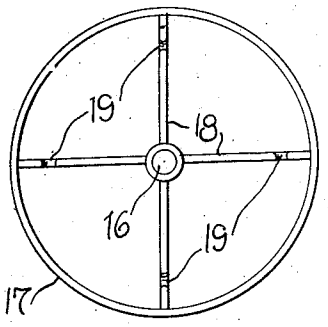


Fig. 7



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UNITED STATES PATENT OFFICE.

WILLIAM RANDALL PHILLIPS, OF TRENTON, NEW JERSEY.

TENT.

1,127,087. Specification of Letters Patent. Patented Feb. 2, 1915.

Application filed May 29, 1914. Serial No. 841,912.

To all whom it may concern:

Be it known that I, WILLIAM RANDALL PHILLIPS, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Tents, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in tents and has relation more particularly to a device of this general character of a portable type; and an object of the invention is to provide a device of this general character having novel and improved means whereby the same may be assembled or disassembled with convenience and facility.

It is also an object of the invention to provide a device of this general character including a ventilating opening, preferably in the top or roof thereof, and having novel and improved means whereby such ventilating opening is effectively protected against ingress within the tent of moisture or the like.

The invention consists in the details of construction and in the combination and arrangement of the several parts whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will be carefully defined in the appended claims.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a perspective view of a tent constructed in accordance with an embodiment of my invention the covering being omitted; Fig. 2 is a longitudinal sectional view taken through the device as illustrated in Fig. 1, certain of the parts being shown in elevation; the tent covering being shown applied; Fig. 3 is an enlarged fragmentary view in perspective of a vertical post herein included, and illustrating a manner for anchoring the same in operative position; Fig. 4 is a fragmentary perspective view illustrating a means whereby a vertical post may be adjusted; Fig. 5 is a fragmentary view in perspective of the upper extremity of a vertical post; Fig. 6 is a fragmentary view in perspective of an extremity of a cross bar; Fig. 7 is a view in top plan of the supporting spider for the top of the tent; Fig. 8 is a view in top plan of the engaging ring, herein included for the roof of the tent, a portion of such tent being shown in plan; Fig. 9 is an enlarged fragmentary view, partly in elevation and partly in section, illustrating the controlling means for the vent opening of the tent, as herein embodied; Fig. 10 is an enlarged fragmentary view, partly in section and partly in elevation, taken through the upper extremity of the device as illustrated in Fig. 9; Fig. 11 is a view, partly in elevation and partly in section, illustrating the flag vane herein included; Fig. 12 is a fragmentary view in perspective illustrating an engaging means for the closure flap of the tent; Fig. 13 is a view in top plan of the bed structure; and Fig. 14 is a fragmentary view in perspective, illustrating a means for supporting the bed structure.

As herein illustrated, I show a form of tent substantially rectangular in form and comprising a plurality of vertical posts 1—1 operatively supported by the braces 2 produced preferably of a strip of material substantially rectangular in form, each of such strips or bodies being provided adjacent their marginal portions with the openings 3 through which the free extremities of the anchoring members 4 are adapted to pass. As herein disclosed, each of the anchoring members is substantially in the form of an inverted L with the stem thereof adapted to be embedded, in the usual way, in the surface on which the tent is positioned, while the extremity of the foot, as indicated at 5, is provided with an angular portion adapted to be directed through one of the openings 3.

I find it of advantage to have the supporting posts 1 preferably formed of angle iron and in order that such posts may be rigidly maintained in the requisite vertical position I find it desirable to employ the brace rods 6, the opposite extremities of which are hooked and adapted to be en-

gaged within the apertures 7 produced in one of the flanges of the posts and in the apertures 8 produced longitudinally of the supporting member 2.

In order that the supporting posts 1 may compensate for any irregularity or unevenness in the surface on which the tent is adapted to be mounted, one or all of such posts may be produced from slidably engaged sections and, as herein disclosed, adapted to be maintained in their relative adjusted positions through the medium of the clamping member 9 carried by a sleeve 10 embracing the overlapping portions of the sections, as is believed to be clearly shown in the accompanying drawings.

The upper extremities of the flanges of each of the posts are provided with the longitudinally directed open ended slots 11 suitably positioned thereon and which are adapted to accommodate the extremities of the cross or connecting bars 12, such connecting bars being also preferably of angle iron and, as herein disclosed, are L-shape in cross section. The opposite extremities of one of the flanges have their inner marginal portions cut-away, as indicated at 14, to afford the open ended recess 15 to accommodate an outer marginal portion of one of the flanges of a vertical post while the second or side flange of the cross bar is flexed or bent inwardly and adapted to be received with a vertical slot 11 whereby it will be readily perceived that an effective and convenient joint or connection is had between such cross or connecting bars and the upper extremities of the vertical posts.

As herein disclosed, an intermediate transverse connecting bar is provided with an upstanding post 16, to the upper extremity of which is adapted to be connected a spider 17, the rim whereof is herein disclosed as substantially circular in form while the spokes 18 in close proximity to their outer extremities are provided with the notches or recesses 19 in which is adapted to rest an annular member 20 to which the tent covering is connected, such annular member 20 serving to afford a ventilating opening in the roof or top of the tent, as is thought to be clearly obvious. The tent covering is of such formation as to snugly fit around the frame afforded by the vertical posts 1 and the connecting bars 12.

The vertical posts 1 at the forward or entrance end have their inner flanges notched, as indicated at 21, to receive a flange of an auxiliary cross bar 22, herein disclosed as substantially L-shape in form, the second or depending flange of such auxiliary bar being provided with a plurality of hooks 23 by which the closure curtain or flap is adapted to be suspended. In order that the lower portion of the closure curtain may be firmly held in closed position, I find it of advantage to provide the adjacent flanges of the forward vertical posts 1 with the openings 24 through which suitable retaining means, carried by the closure curtain may be directed in a conventional manner. While the retaining means may be a cord or the like, the arrangement may be employed as illustrated in Fig. 12, wherein the side marginal portions of the closure curtain are provided with the laterally disposed wires 26 having their free extremities formed into the hook members 27 which are adapted to resiliently and frictionally engage the vertical posts, in a manner which is believed to be self-evident. I also find it of advantage to secure to the upper extremities of the end posts 1 the arch members 25 removably held thereto through the medium of the clamping members 25^a whereby the top of the tent covering A will be so shaped as to keep the water from running over the ends of the tent as the circular formation thereof will have a tendency to direct the water to the sides. In addition to this advantageous function, the arch members 25 serve to add additional strength to the frame.

As herein disclosed, I suitably connect to certain of the side vertical posts 1 and preferably the innermost posts, the supplemental posts 28 having their opposite extremities 28′ angularly disposed and on the upper extremity of which is adapted to be rested a longitudinal side rail 29 of a bunk 30, the opposite longitudinal side rail being adapted to be engaged with the upper extremity of the upwardly inclined bars 31, the lower extremities of which being removably insertible through the openings 28^a produced in the angular extremities 28′, for reasons which are believed to be self-evident.

As herein disclosed, the bunk is substantially rectangular in form and is provided with the adjustable head rest 32 pivotally engaged with the side rails 29, such head piece being provided with a suitable catch 33 whereby the same may be effectively maintained in an elevated position in a manner believed to be clearly illustrated in the drawings. The side rails 29 and the end rails 34 are provided with the inwardly disposed hooks 35 to which canvas or the like is adapted to be secured, for a purpose which is believed to be self-evident and the adjustable head rest 32 has its side and end rails 36 also provided with the inwardly disposed hooks 37, to which canvas or the like may be secured.

In order that moisture, such as rain or other foreign substances, may be prevented from entering within the tent through the ventilating opening, I find it of particular advantage to have the upper extremities of

the post 16 provided with the laterally directed vertically alined eye members 38 through which is slidably directed an elongated bar 39, the lower extremity of which having suitably connected therewith a flexible member 40 which is disposed around a pulley 41 or the like operatively supported by the post 16 at a point above the lowermost eye 38, the opposite extremity of such flexible member 40 being adapted to be engaged with a cleat 42. By this arrangement, it is thought to be obvious that the elongated member 39 may be raised or lowered as the necessities of practice may require.

The upper extremity of the bar 39 has slidably engaged therewith a ferrule 43 with which are operatively connected the stays 44 which in turn are operatively engaged with the ribs 45 of the cover member for the ventilating opening in the roof or top of the tent, such member being somewhat in the nature of a conventional umbrella and including the flexible cover 46 connected with the ribs 45. The inner extremities of the ribs 45 are operatively connected with the ferrule 47 rotatable around the upper extremity of the bar 39 and coacting with the cup 47^a, and interposed between such cup 47^a and the ferrule 47 are the anti-friction members 49, herein disclosed as conventional ball bearings whereby it will be readily perceived that under the influence of the wind such cover will be free to rotate around the bar 39 and thus reduce to a minimum the possibility of injury thereto. In order to assure the ferrule 43 to rotate in unison with the upper ferrule 47, I find it of advantage to provide the ferrule 43 with the trigger 49 adapted to interlock with the skeleton sleeve 48, as is believed to be clearly shown in the accompanying drawings. In order to maintain the closure for the ventilating opening in operative or open adjustment, the ferrule 43 coacts with a spring latch 50 in a manner similar to that generally employed in connection with umbrellas.

Operatively engaged with the upper extremity of the bar 39 is the flag pole 51 adapted to be surrounded by a tube 52 maintained in operative position through the medium of the cross-pin or rivet 53 directed through the pole 51 and on the outer or free extremity of which the tube 52 rests. By this arrangement, it will be seen that the flag 54, to be hereinafter more particularly referred to, will be permitted to turn with the wind and thus serve as a means to indicate the direction in which such wind is blowing. As herein disclosed, the tube 52 has operatively engaged therewith the longitudinally directed bar 55, to the upper extremity of which is pivoted, as at 56, the normally horizontally disposed rod 57, the flag 54 having its upper longitudinal marginal portion secured to such rod 57 and to the upper portion of the rod 55. Slidably engaged with the bar 55, as is generally done in a manner similar to that employed in connection with umbrellas, is a ferrule 58 having connected therewith the brace rod or stay 59 also operatively connected with the rod 57 intermediate its length, whereby it will be readily perceived that the flag 54 may be raised or lowered with convenience and facility and when in raised position is effectively maintained against drooping.

From the foregoing description, it is thought to be obvious that a tent constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice.

I claim:

1. In combination with a tent provided with an opening in its top, a post within the tent below the opening, an elongated member movably supported by the post and adapted to project through the opening of the tent, means for imparting movement to such elongated member, and a cover for the opening carried by the upper extremity of the elongated member, such cover being collapsible and being adapted to be directed through the spider when in collapsed adjustment.

2. In combination with a tent having an opening in the top thereof, a post within the tent below the opening, an elongated member movably supported by the post and adapted to project through the opening of the tent, means for imparting movement to such elongated member, a cover for the opening carried by the upper extremity of the elongated member, such cover being collapsible and being adapted to be directed through the opening when in collapsed adjustment, and coacting means carried by the elongated member and the cover for maintaining the cover in extended adjustment.

3. In combination with a tent provided with an opening in its top, a post positioned within the tent below the opening, an elongated member movably supported by the post and adapted to project through the opening of the tent, a flexible member co-

acting with the elongated member and the post for imparting upward movement to the elongated member, and a collapsible cover carried by the upper extremity of the elongated member, said cover being adapted to be directed through the opening when in collapsible adjustment.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

WILLIAM RANDALL PHILLIPS.

Witnesses:
ANNA ROBINSON,
WALTER D. COUGLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."