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J. L. WHITE

2,325,645

TENT

Filed Dec. 11, 1941

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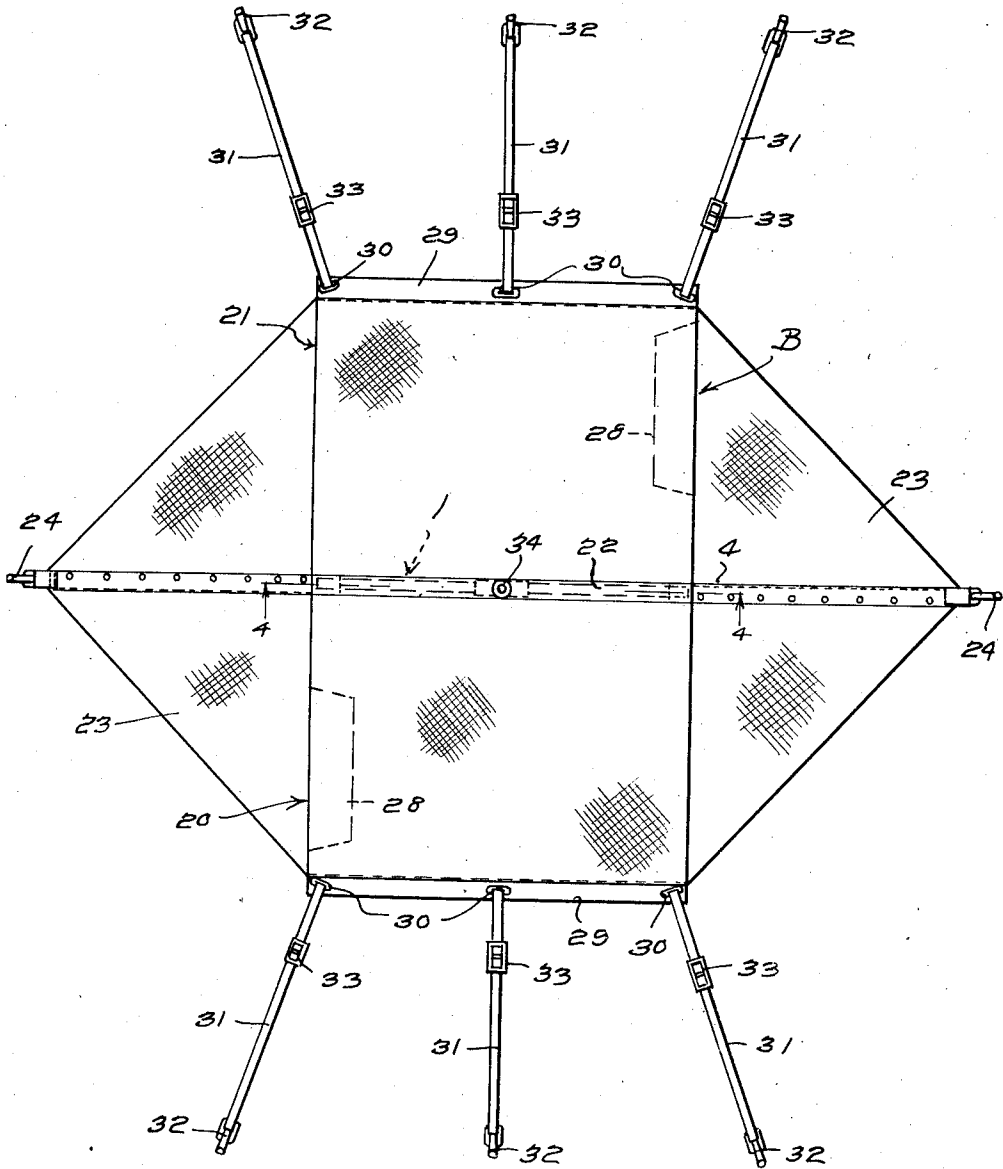


Fig. 1.

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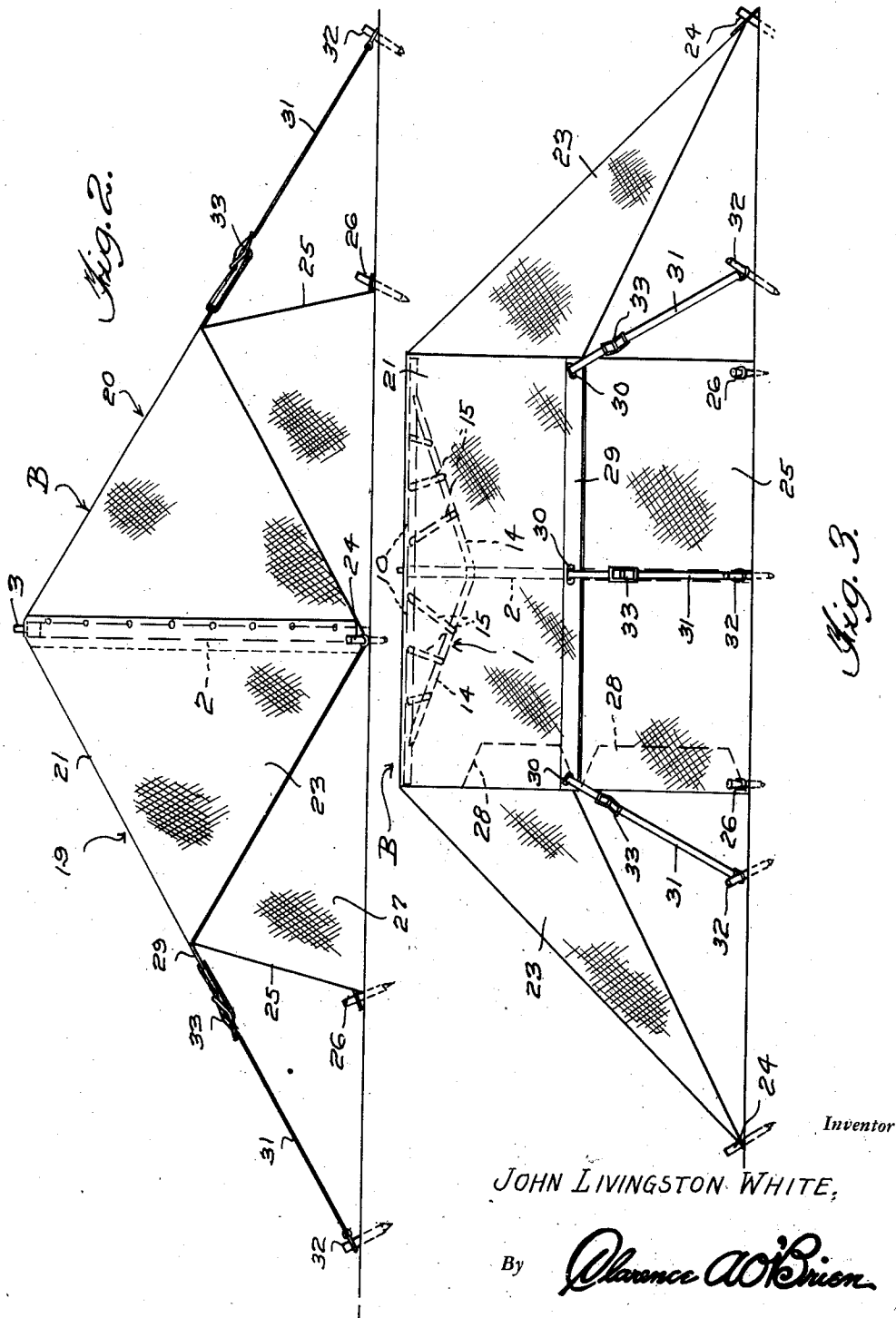
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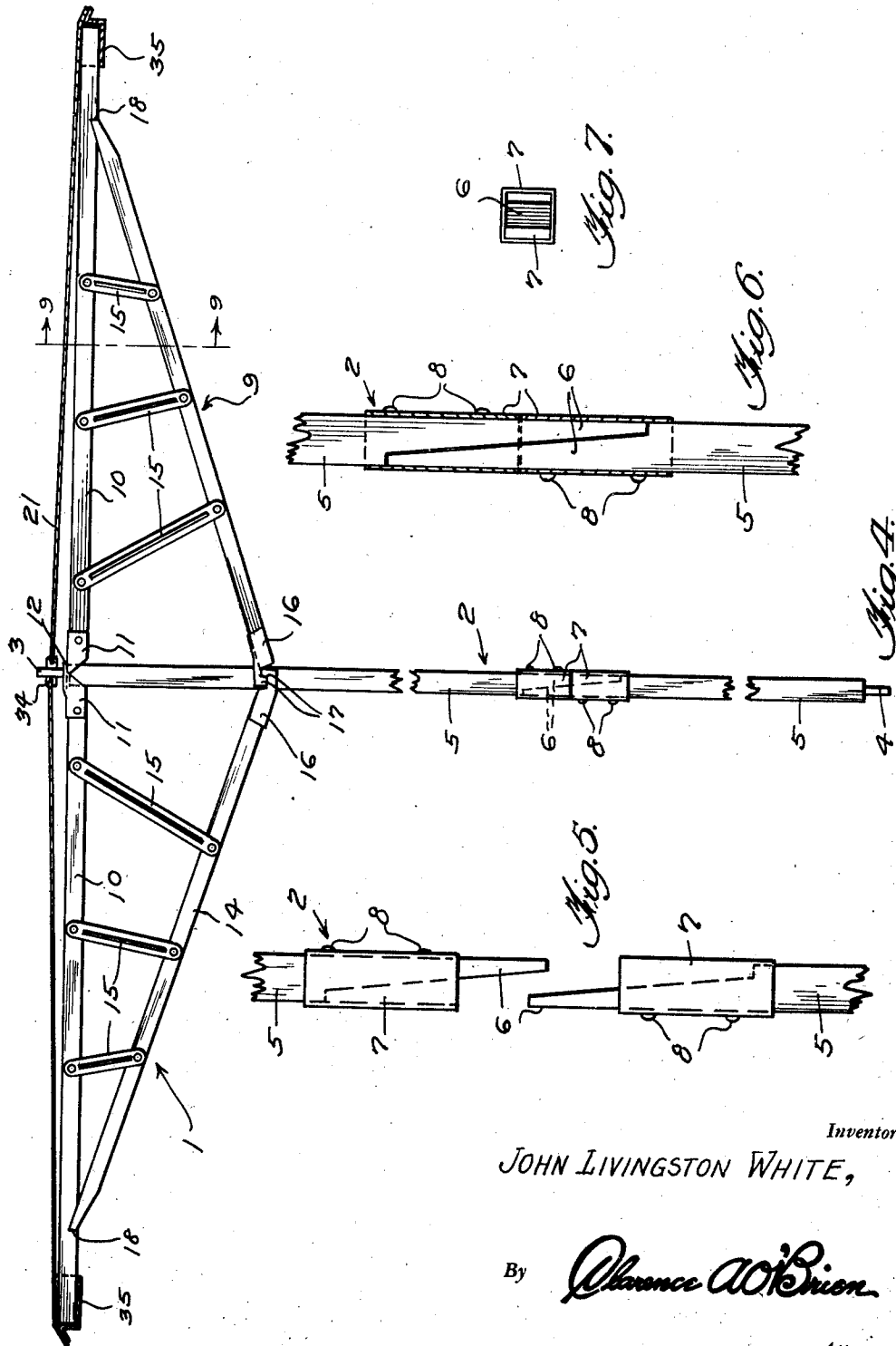
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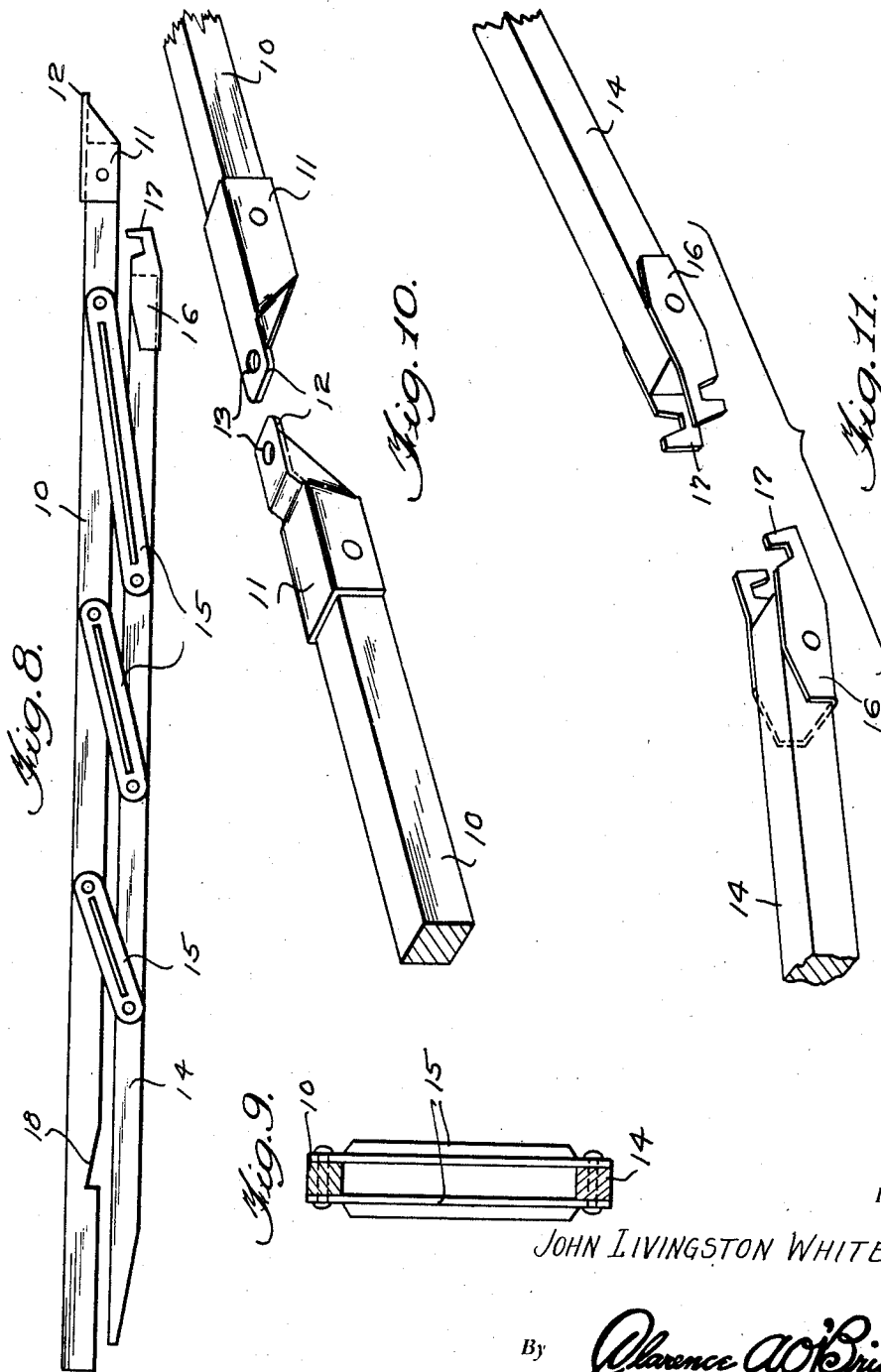
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TENT

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3 Claims. (Cl. 135—3)

The present invention relates to new and useful improvements in tents and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character comprising novel supporting means, said supporting means including a single pole and a folding truss ridge.

Another very important object of the invention is to provide a tent of the character described which may be expeditiously erected and taken down and which, when not in use, will occupy a minimum of space.

Still another very important object of the invention is to provide a tent of the aforementioned character which includes unique means for connecting thereto a plurality of adjustable guy straps.

Other objects of the invention are to provide a folding tent and supporting structure of the character set forth which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a top plan view of a tent constructed in accordance with the present invention.

Figure 2 is a view in end elevation thereof.

Figure 3 is a side elevational view.

Figure 4 is a view in vertical longitudinal section of the center pole and the folding truss ridge taken substantially on the line 4—4 of Figure 1 showing, in side elevation, the knock-down support or folding truss ridge.

Figure 5 is a view in side elevation of the adjacent end portions of the center pole sections, showing said sections separated.

Figure 6 is a vertical sectional view through the connected end portions of the center pole sections.

Figure 7 is a view in end elevation of one of the center pole sections.

Figure 8 is a view in side elevation of one of the horizontal folding truss supporting units, showing same in folded position.

Figure 9 is a cross-sectional view through one of the foldable supporting units, taken substantially on the line 9—9 of Figure 4.

Figure 10 is a perspective view of the inner

end portions of the supporting arms, showing said arms separated.

Figure 11 is a perspective view of the inner end portions of the arm braces, showing said braces separated.

Referring now to the drawings in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a knock-down support which is designated generally by reference numeral 1. The support 1 includes a single square pole 2 of wood or other suitable material. Projecting from the ends of the pole 2 are pins 3 and 4. The pole 2 comprises a pair of sections 5 having beveled overlapping end portions 6. Metallic sleeves 7 are secured at 8 to the end portions 6 of the pole sections 5. The sleeve 7 on each pole section 5 is for the reception of the beveled end portion 6 of the other section. Thus, the pole sections 5 are detachably but securely connected.

Removably mounted on the upper portion of the pole 2 is a folding truss 9. The folding truss 9 includes a pair of arms 10 having secured on their inner end portions metallic channel members 11. Projecting from the inner ends of the channel members 11 are integral tongues 12 having openings 13 therein for the reception of the pin 3 on the upper end of the pole 2. In this manner the arms 10 are detachably connected at their inner ends to the upper end of the pole 2.

The folding truss 9 further includes braces 14 for the arms 10. The braces 14 are pivotally connected to the arms 10 for swinging movement into parallelism therewith when not in use (see Fig. 8) through the medium of pairs of ribbed metallic struts 15.

Secured on the inner end portions of the braces 14 are channel members 16. Projecting longitudinally from the inner ends of the side flanges of the channel members 16 are oppositely facing hooks 17. The hooks 17 of the braces 14 are adapted to interlock on opposite sides of the pole 2 which passes upwardly between the inner ends of said braces. The outer ends of the braces 14 are engageable in notches 18 which are provided therefor in the outer portions of the arms 10. The pole 2 is inserted between the braces 14 after the hooks 17 are engaged.

The body B of the tent is of suitable material and comprises a pair of complementary half-sections 19 and 20 formed to provide an anticlinal top 21, the inner marginal portions of said half sections being lapped and secured together at 22. Of course, the connection 22 permits ready separation of the tent sections 20 and 21.

Projecting from the upper portions of the ends of the tent body B are anticlinal canopies 23 which, as best seen in Figure 1 of the drawings, are substantially triangular in plan. The canopies 23 are inclined and have their outer ends anchored to the ground at 24. The tent body B further includes outwardly inclined side walls 25 which are staked to the ground at 26, and end walls 27 having door flaps 28 therein.

The outer marginal side portions of the top sections 21 extend beyond the side walls 25 and are folded upon themselves in a manner to provide overhanging flaps 29 having a double thickness of material. Grommets 30 are provided in the flaps 29. The grommets 30 accommodate the adjustable end portions of guy straps 31, the other ends of which are adapted to be anchored to the ground by stakes 32 through the medium of metal loops on the straps. The straps 31 include suitable adjusting buckles 33 and metal loops on one end of said straps.

It will thus be seen that a supporting structure comprising a single center pole and a folding truss ridge has been provided for a tent. While this supporting structure is primarily intended for use in connection with shelter tents, it may be used for any other type or for any other purpose for which it may be found adapted. The pole 2 is centrally located in the tent and the folding truss 9 engages beneath the peak of the top 21. A grommet 34 (see Fig. 4) accommodates the pin 3. The outer or free ends of the arms 10 engage in boots or pockets 35 which are provided therefor in the end portions of the top 21.

It is believed that the many advantages of a tent constructed in accordance with the present

invention will be readily understood, and although a preferred embodiment of said tent is as illustrated and described, it is to be understood that changes in the details and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. A support of the character described comprising a pole, arms removably mounted on the upper end portion of said pole, braces engageable at one end with the pole and at their other ends with the arms, and elements connecting the braces to the arms for swinging movement into parallelism therewith.

2. A support of the character described comprising a single pole, arms removably mounted on the upper end portion of said pole, braces engageable at one end with the pole and at their other ends with the arms, means detachably connecting said one end of said braces together on opposite sides of the pole and in abutting engagement therewith, and struts pivotally connecting the braces to the arms for swinging movement into parallelism therewith.

3. A support of the character described comprising a pole, removable arms on the upper end portion of said pole, apertured tongues projecting longitudinally from the inner end portions of said arms, a pin on the upper end of the pole extending through said tongues for detachably connecting the arms to said pole, and braces mounted for swinging movement on the arms, said braces being engageable at one end with the pole and at their other ends with the arms.

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