

Nov. 18, 1924.

1,516,372

B. H. BROOKS

TENT STRUCTURE

Filed July 3, 1923

Fig. 1

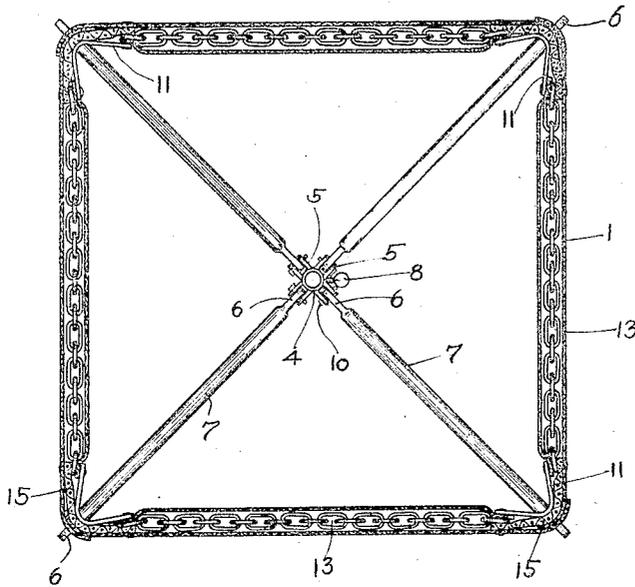


Fig. 4

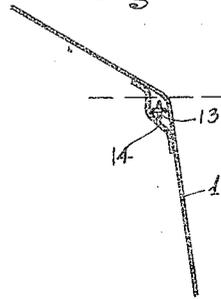


Fig. 3

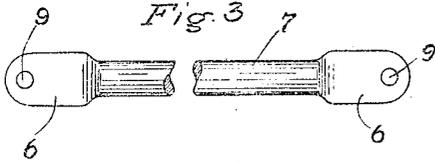


Fig. 5

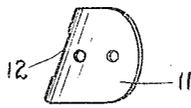


Fig. 2

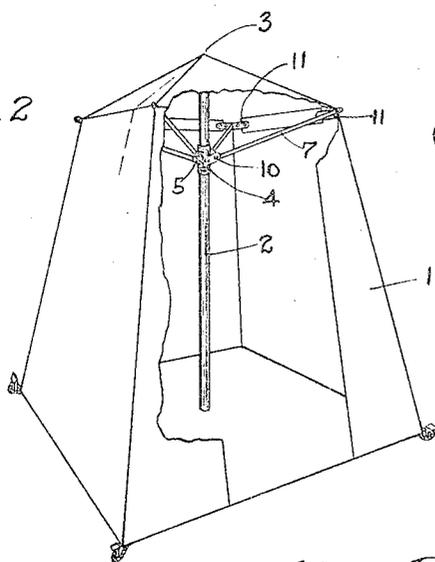


Fig. 6

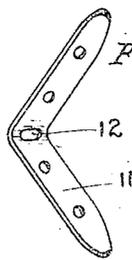
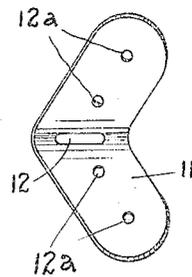


Fig. 7



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TENT STRUCTURE.

Application filed July 3, 1923. Serial No. 640,833.

To all whom it may concern:

Be it known that I, BLOOMFIELD H. BROOKS, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Tent Structures; and I 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 tent structures and more particularly to improvements in tents of the umbrella type having a main central vertical support and a plurality of radially directed supporting arms.

The objects of the present invention are to improve the construction of tents of the type indicated with a view to relieving the tent proper of undue strains, prolonging its life and assuring uniform and correct stretching thereof and also to provide an improved structure facilitating the assembly or disassembly of the parts and also adding materially to the life of the device. Other objects will more particularly appear in the course of the following detailed description.

The invention consists in the novel construction, arrangement and combinations of parts as hereinafter more particularly described and claimed.

One sheet of drawings accompanies this specification as part thereof in which like reference characters indicate similar parts throughout.

Fig. 1 is a horizontal cross-section view taken through a tent embodying the present invention.

Fig. 2 is a perspective elevation partly broken away.

Fig. 3 is a detail view of an improved supporting arm.

Fig. 4 is a vertical fragmentary cross-sectional view taken through a tent embodying the present invention.

Fig. 5 is a side elevation of the improved angle iron.

Fig. 6 is a top view of the angle iron.

Fig. 7 is a top plan view of the angle iron.

The present invention is particularly adapted to tents of the umbrella type indicated generally by the numeral 1, which may be square or various other polygonal

shapes. In tents of this type a central vertical support 2 is adapted to support the peak of the tent 3. On this vertical support 2 is a sliding collar 4 provided with a plurality of radially disposed lugs 5 arranged in pairs and adapted to receive the flattened end 6 of radial supporting arms 7. The collar 4 is held in its desired location as by a set screw 8. In accordance with my invention the radial arms 7 are provided at each end with similar flattened parts 6 each provided with an orifice 9 adapted to receive a suitable pivot pin 10 extending therethrough and also through the lugs 5 on the collar 4.

Arranged in each corner of the tent adjacent the top of the wall parts is an angle iron 11 bent at an angle corresponding to that of the walls of the tent each angle iron 11 being provided adjacent its bend with a vertical slot 12 adapted to receive the flattened part 6 of one of the radial arms 7. The angle members are further provided with holes 12 and interposed between the adjacent angle irons and secured thereto are chains or other non-expansible but flexible members 13. These chains are preferably encased as by a pocket 14 extending horizontally of the tent along the eaves line.

At the corners of the tent a suitable packing, such as fiber or felt, 15 is interposed between the angle irons 11 and the body of the tent.

By reason of the structure just described it will be apparent that the arms 7 may be readily removed and replaced and may also be reversed so that in assembling no particular attention need be paid to these members. It will further be noted that by reason of the non-expansible and flexible members 13 the tent may be readily folded and packed when down and may at the same time be stretched to maximum tensility when erected without endangering the fabric of the tent thus assuring walls of maximum rigidity and correct shape.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. In a tent having a central support provided with a plurality of radially disposed arms, a non-expansible member girdling the tent and secured thereto provided with seats adapted to receive the ends of the arms.

2. The structure described in claim 1 in which the non-expansible member includes a

plurality of flexible members and a plurality of rigid angle members, the flexible members secured at their ends to the ends of the angle members, said angle members each provided at the bend with a transverse slot, adapted to seat the ends of the arms.

3. The structure described in claim 1 with a slide member on the central support and with the radial arms constructed with similar flattened ends each provided with a transverse orifice, the slide provided with a plurality of radially disposed pivot lugs arranged circumferentially in pairs, said arms being reversible by reason of their flattened ends and removably pivoted between said lugs, substantially as specified.

4. The structure described in claim 1 with packing interposed between the tent and the

outer face of the girdling member immediately adjacent the seats for the arms. 20

5. The structure described in claim 1, with a tent having pockets provided along the eaves line and with flexible packing members positioned intermediate the pockets, the girdling member being passed through said pockets formed on the tent intermediate the arm seats and interiorly of the flexible packing members. 25

6. In a tent having a central support provided with a plurality of radially disposed arms, a non-expansible flexible member girdling the tent and secured thereto provided with seats adapted to receive the ends of the arms. 30

In testimony whereof I affix my signature.
BLOOMFIELD H. BROOKS.