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B. A. RUPRIGHT
COLLAPSIBLE TENT FRAME

2,284,686

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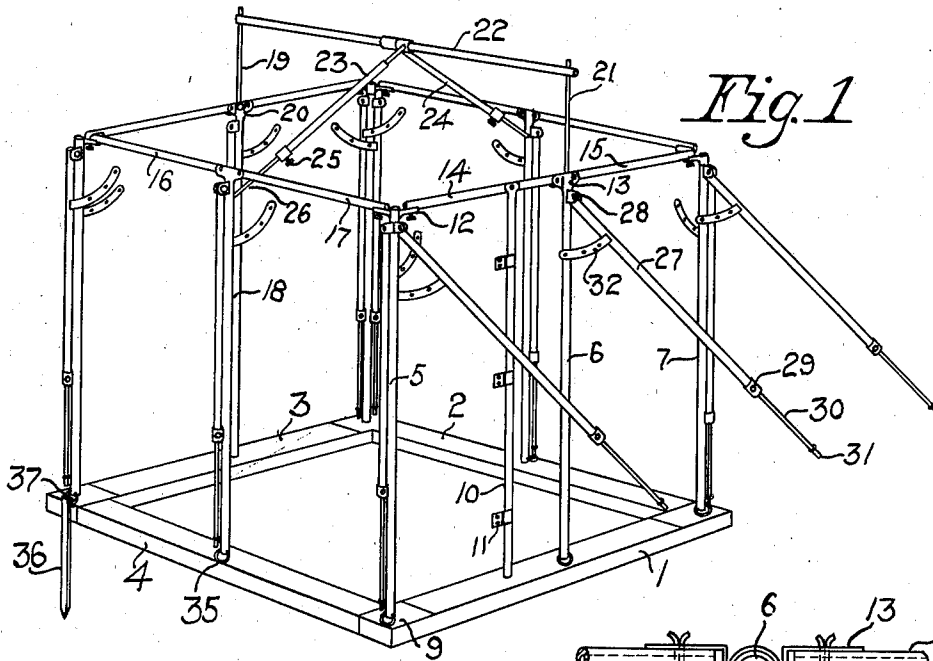


Fig. 1

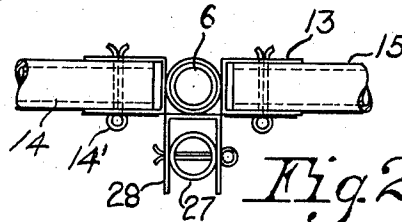


Fig. 2

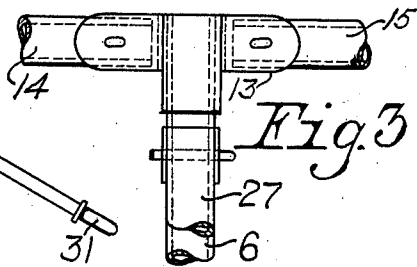


Fig. 3

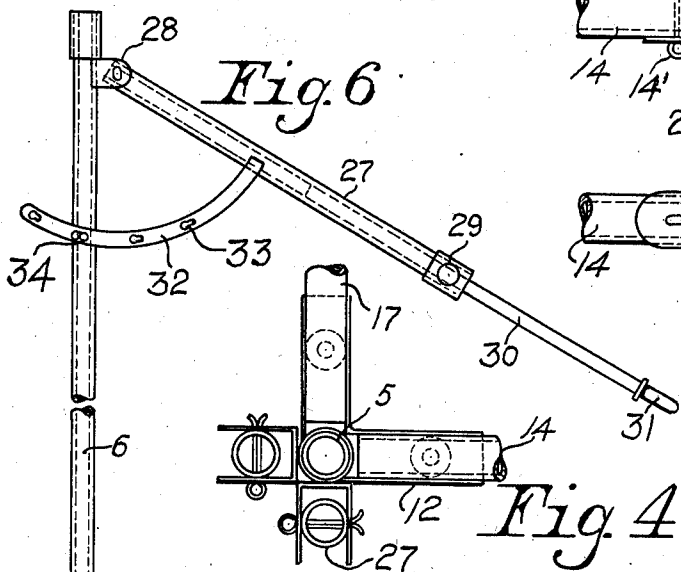


Fig. 4

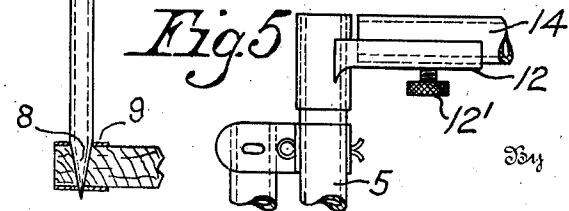


Fig. 5

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COLLAPSIBLE TENT FRAME

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1 Claim. (Cl. 135—3)

This invention relates to collapsible tent frames, and has for its object the construction of a frame for the support of the fabric covering of a tent or the like, comprising parts of special formation and arrangement, each part being detachable in order that the entire frame may be taken apart and assembled in a relatively small space or bundle for convenient transportation or shipment, and which may readily be erected without the use of tools and by persons of limited mechanical knowledge and experience.

The special construction of this invention is illustrated in the accompanying drawing forming a part of this application for patent, and of which Fig. 1 represents a perspective view of all parts assembled in the erected position of the frame.

Fig. 2 is a top end view of one of the vertical members showing the attached socket head.

Fig. 3 represents a side view of the socket head or connecting devices at the top of one of the vertical members.

Fig. 4 shows a top view of one of the corner vertical members with the connecting devices located at the top of the member and connected with ends of the horizontal members at the angular junction thereof.

Fig. 5 represents a side view of the parts illustrated in Fig. 4.

Fig. 6 is a side view of one of the vertical tubular members, showing its pointed and limited end insertion in the base boards.

Throughout the drawing and specification the same number is used to refer to the same part.

Considering the drawing, in Fig. 1 is represented the rectangular base composed of separable sides 1, 2, 3 and 4, and which may be of wooden pieces. Vertical tubular corner and intermediate members 5, 6 and 7 are employed as shown, and in Fig. 6 the pointed end of the vertical member 8 is shown passing through the metal plate 9. The function of plate 9 is to limit the insertion of the pointed end of the vertical member into the wooden base.

In addition to the vertical members mentioned, there may be employed a like vertical tubular member 10 having spaced hinges 11 for an open-work door to the tent, not shown, and which may be of any chosen pattern.

Best shown in Fig. 5 at the top of the corner vertical member 5, is the angular bracket device 12 having the set screw 12'. The corner bracket 12 has two branches at right angles and de-

tachably supports the ends of horizontal tubes 14 and 17 as illustrated in Fig. 1.

As best shown in Figs. 2 and 3 the intermediate vertical tube 6 is provided at the top with detachable fastening means termed for the purposes of this explanation a socket head 13. This head may be soldered to the top of the vertical member, and its individual shape can be obviously varied. As set out in Fig. 2 the head 13 is detachably attached to the adjacent ends of horizontal tubes 14 and 15 by cotter pins 14'.

As usually constructed the horizontal top frame tubes 14 and 15, also 16 and 17 as set out in Fig. 1 are separable elements, and may be detached from the top socket heads or like of the vertical members.

In Fig. 1 the intermediate vertical tubular member 18 has therein a vertically adjustable rod 19 secured by a set screw 20 in the socket head of the vertical tube. Intermediate vertical tube 6 has a like adjustable rod 21, and those rods support a cross tube 22 that carries the top tent angle. Adjustable rod holding tubes 23 and 24, each having a set screw 25 are arranged in inclined positions with ends connected with the tent angle carrier 22 and front and rear vertical tube members as illustrated. The rod 26 in brace tube 25 is shown, and its adjustment may be fixed by the set screw 25.

As best illustrated in Fig. 6 there will be noted one of the outwardly inclinable rod holding tubes 27, pivotally and if need be detachably secured near the top of the vertical tubular member 6 in the clip or socket 28 which is a part of the devices also shown in Fig. 2. A set screw 29 in the collared or reinforced end of tube 27 adjustably secures rod 30, so that the combined length of the tube and rod may be altered. In any desired manner, as by the provision of a terminal ring 31 the rod 30 may be connected with pegs driven into the earth in the manner usual in tent erections. As further set out in Fig. 6 there will be observed the arcuate piece 32 constructed with slots 33 intended to be slipped over pins 34 in the vertical member 6, whereby the inclination of the tube 27 and rod therein may be fixed in position desired. The function of the inclined rods elements is primarily to provide supports for an awning on either side or upon all sides of the tent frame. As shown in Fig. 1 the rods are illustrated on all four sides of the structure.

Further considering Fig. 1, there will be seen the rings 35 provided for each vertical tubular member where it is inserted into the base board. The function of the ring is to engage the peg 36

which has a lip 37 to be passed over the ring, and when the peg 36 is driven into the earth the base rectangle of the erected tent cannot be displaced. There may be as many pegs 36 used as thought necessary to keep the tent in place, particularly in windy weather.

It will be borne in mind that the object of this invention is the production of a collapsible tent frame of especially simple character, and of which the parts when detached may be collected in comparatively a small package for handling or for shipment. Yet it is believed to be apparent from the foregoing description that the frame members and devices may be easily and readily assembled by any person without the use of tools, and without more than the ordinary mechanical knowledge. The invention is in no sense limited to the size of the tubes either individually or relatively, and tubes of usual dimensions in such tent frames may be utilized.

Having now described this invention, I claim:

In a collapsible tent frame, a base frame constructed of separable pieces, means for securing the base frame in position upon the ground, spaced vertical members having lower ends con-

nected with the base frame in detachable relation, horizontal top members connecting the upper ends of the vertical members and detachable therefrom, each vertical member having pivotally and detachably connected therewith an inclinable tube, each inclinable tube being provided with an extensible rod and a set screw whereby the rod may be extended from the free end of the tube in adjustable relation, said rods having terminal rings constructed to engage tent pegs, an arcuate member provided for and attached to each inclinable tube, means whereby the said arcuate member may be connected and disconnected with a vertical member to adjust the inclinable tubes, a tent angle carrier extending horizontally across the tent frame top and having vertical end rods in adjustable and detachable connection with vertical members, and said tent angle carrier having connected between its ends inclined supporting bracing tubes each having an extension rod therein, the ends of said rods being connected with the sides of the tent frame.

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