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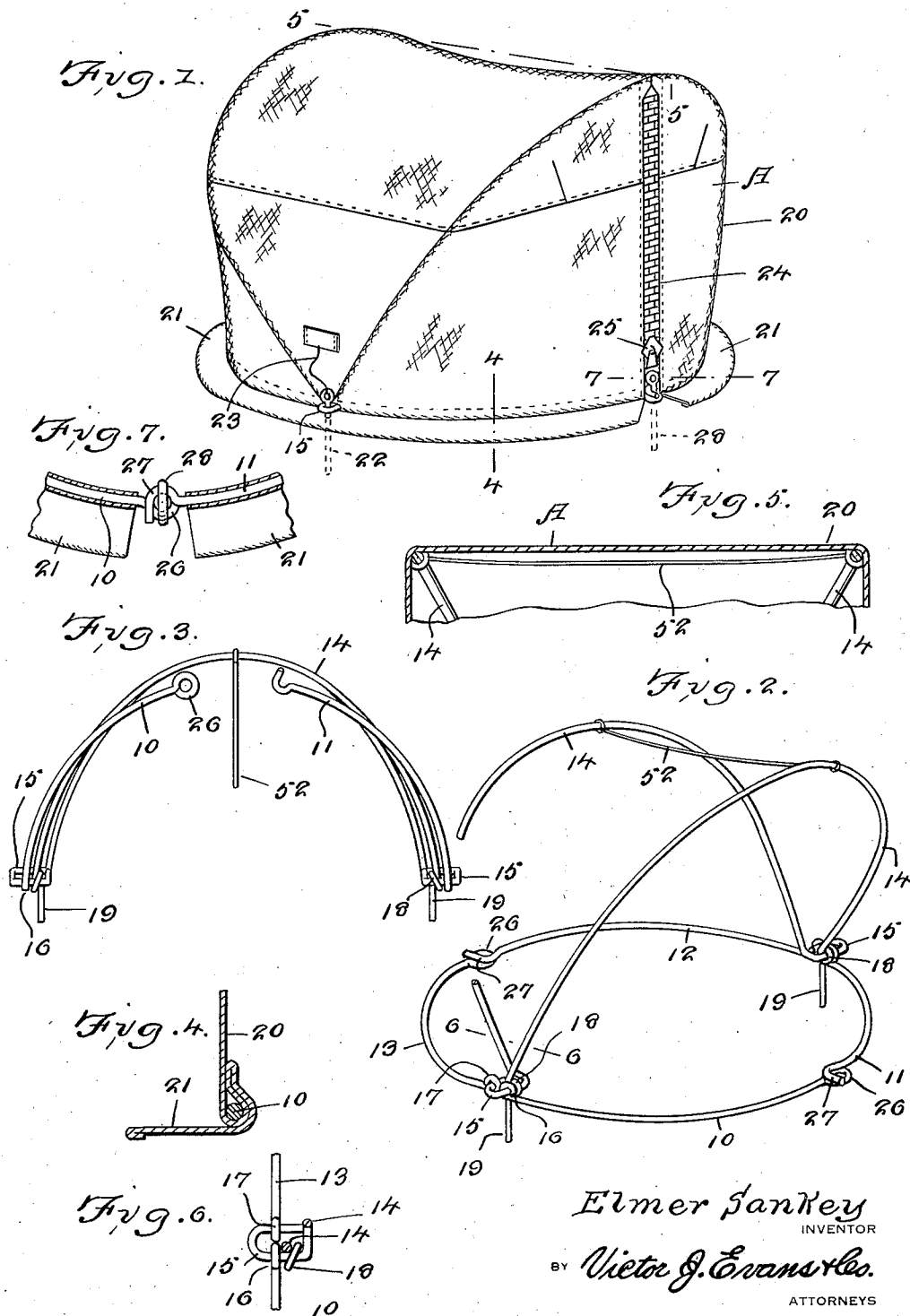
E. SANKEY

2,167,219

FOLDABLE TENT

Filed Sept. 9, 1938

2 Sheets-Sheet 1



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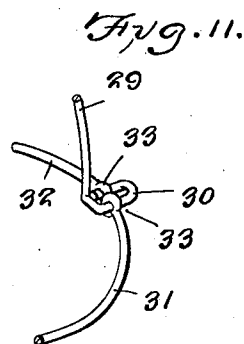
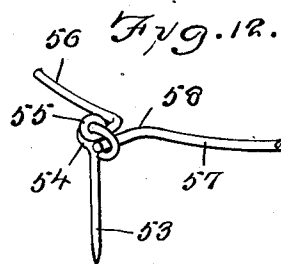
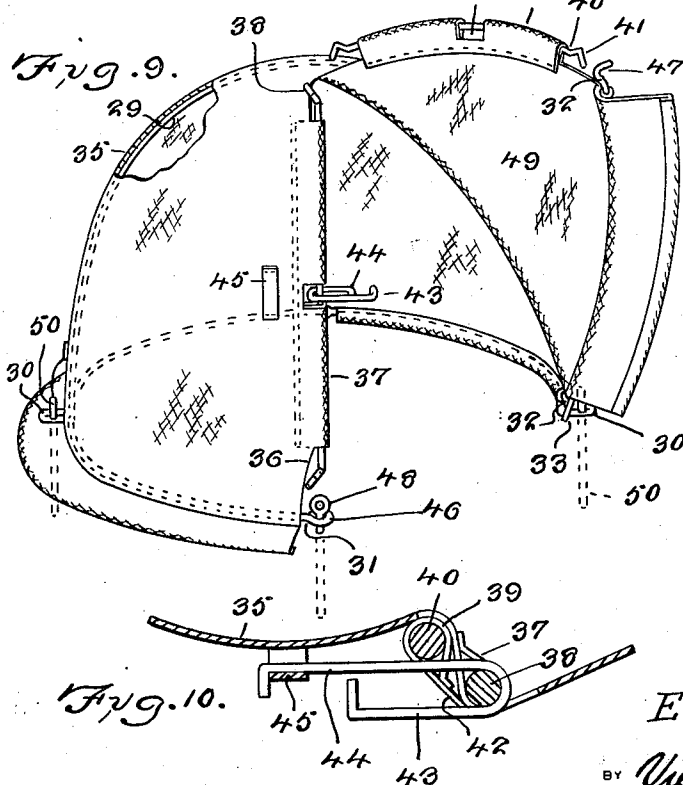
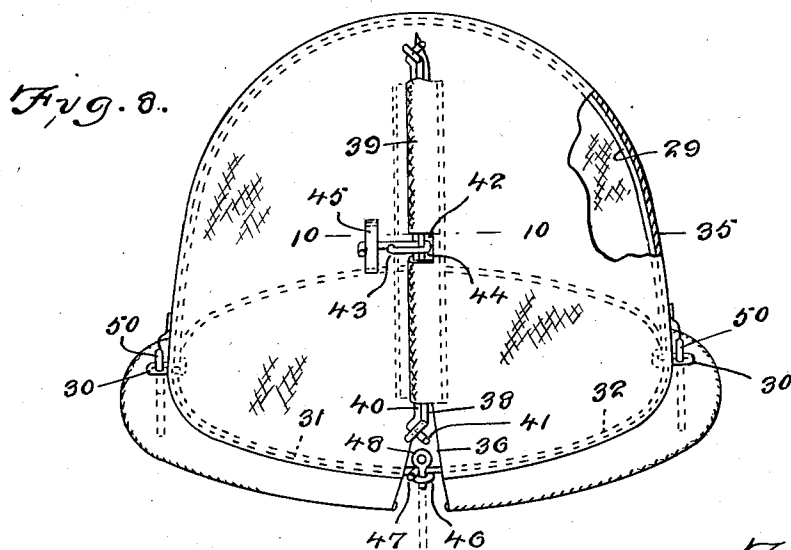
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UNITED STATES PATENT OFFICE

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FOLDABLE TENT

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3 Claims. (Cl. 135—1)

The invention relates to a foldable or collapsible tent and more especially to protective tents for lambkins.

The primary object of the invention is the provision of a tent of this character, wherein the frame thereof is sectional and such sections are in the form of bows, these being linked together so that they can swing apart with respect to each other for the setting up of the tent for occupancy or moved together for the collapsing or folding of such tent when not in use, the bows being swingingly joined or connected with each other for the easy extending or collapsing of the tent in its entirety and when such tent is set up it is anchored in place upon a foundation to be secure and protective of the occupants against inclement weather, wind, dust storms and the like.

Another object of the invention is the provision of a tent of this character, wherein access will be easily had thereto when set up for occupancy, the tent being usable for the confinement of lambs and ewes, being no liability of the collapsing of such tent when set up for occupancy.

A further object of the invention is the provision of a tent of this character, wherein the covering and frame therefor are of novel construction and unique in the association with each other to assure protection to the lambkins when confined within the same.

A still further object of the invention is the provision of a tent of this character, which is simple in its construction, thoroughly reliable and efficient in operation, readily folded when not in use to occupy the least possible space in storage, easily set up for use and is assured against collapsing during use, strong, durable, and inexpensive to manufacture.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, which disclose the preferred and modified forms of embodiment of the invention and pointed out in the claims hereunto appended.

In the accompanying drawings:

Figure 1 is a perspective view of a tent set up for use and constructed in accordance with the invention, being the preferred embodiment of the invention.

Figure 2 is a fragmentary perspective view of the frame structure of the tent with its covering removed and in extended position.

Figure 3 is a view showing the frame collapsed or folded.

Figure 4 is an enlarged fragmentary detail view taken on the line 4—4 of Figure 1.

Figure 5 is a fragmentary sectional view taken on the line 5—5 of Figure 1.

Figure 6 is a sectional view on the line 6—6 of Figure 2.

Figure 7 is a fragmentary sectional view on the line 7—7 of Figure 1.

Figure 8 is a perspective view of a modified form of tent constructed in accordance with the invention.

Figure 9 is a perspective view showing the tent illustrated in Figure 8 in an open position.

Figure 10 is an enlarged fragmentary sectional view taken on the line 10—10 of Figure 8.

Figure 11 is a fragmentary perspective view of the frame of the tent illustrated in Figures 8 and 9.

Figure 12 is a fragmentary detail view showing a further modification for anchoring the frame to a foundation.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, particularly Figures 1 to 7, inclusive, disclosing the preferred embodiment of the invention, A designates generally the tent in a set up condition for occupancy and anchored in place upon a foundation. This tent A comprises a foldable frame including a substantially circular shaped sectional base hoop or ring made from relatively rigid wire lengths constituting the sections 10, 11, 12 and 13, respectively, and several swinging bows 14, these being upwardly arched and one of these bows 14 at its ends has bent therefrom out-turned elongated eyes 15 with which are loosely connected the sections 10, 11, 12 and 13, the sections 10 and 11 being loosely connected at 16 to these eyes 15 at one side of the bow having the same while the sections 12 and 13 are loosely connected to said eyes 15 as at 17 to the opposite side of this bow. The other bow 14 has loose connection with the eyes 15 through the coils 18 bent from said bow and the terminals 19 of such bow beyond the coils 18 being effective as anchoring pins for engagement in a foundation to hold the frame in a fixed position relative thereto particularly when setting up the tent for use from a folded condition.

Tacked or otherwise fastened to the frame, that is, the sections 10, 11, 12 and 13 and the bows 14, respectively, is a fabric, preferably waterproofed,

tent body or covering 20 being preferably of the shape illustrated in Figure 1 of the drawings and is provided along the bottom edge thereof with a lateral spread portion 21, the eyes 15 being projected exteriorly of the body or covering 20 through suitable clearances for the exposure thereof without the tent to receive anchoring pins or fasteners 22, which are driven into a foundation, these being hung upon flexible ties 23 secured to the body or covering 20 exteriorly thereof so that in this manner the tent when set up for use will have double anchorage at opposite sides thereof through the medium of the pins 19 and 22, respectively.

The body or covering 20 is provided with an entrance and exit opening effected by the slit 24 vertically directed on the setting up of the tent through extending of the body or covering 20 and such opening or slit is susceptible of being closed through the use of a zipper fastener 25 of conventional construction.

The sections 10—11 and 12—13 are separable in their relationship in that the sections 10 and 13 are formed with eye terminals 26 while the sections 11 and 12 are formed with hook terminals 27, both terminals being engageable with anchoring pins, one of the same being indicated at 28 in Figure 1 of the drawings. Each anchoring pin 28 is driven into a foundation from which the tent is set up and located and when it is desired to open the body or covering 20 to the full extent of the opening or slit 24 therein, the pin 28 engaging the terminals 26 and 27 will have been pulled out of the foundation and the zipper fastener 25 actuated for allowing the opening of the slit 24 whence the portions of the body or covering 20 next to the opening or slit can be lifted upwardly and in this fashion full opening of the tent for entrance thereto or exit therefrom may be had. Now should it be desired to fold back the body or covering 20 only at one side of the opening or slit 24, the hook terminal 27 engaging the pin 23 can be released therefrom, that is to say, the pin 28 adjacent to the opening or slit 24 and thereafter by operating the zipper fastener 25 partial opening of the tent may be had. When it is desired to completely fold the tent the pins 28 are removed from the foundation and thus the terminals 26 and 27 disengaged therefrom whereupon these sections 10, 11, 12 and 13 can be folded upwardly and inwardly in the direction of the bows 14 which likewise can be folded toward each other bringing the tent to a folded or collapsed condition and, should it be desired to remove the tent from the foundation, the pins 22 are extracted therefrom and the pins 19 pulled out of such foundation thus freeing the frame of the tent from anchorage.

In Figures 8 to 11 of the drawings there is shown a modified form of tent wherein a single bow 29 having the terminal eyes 30 is employed while the ring sections 31 and 32, respectively, at one side of this bow 29 are loosely connected at 33 with the eyes 30 and at the other side of the bow is a substantially half ring shaped section 34, these sections constituting the base ring of the foldable frame for the tent. Tacked or otherwise fastened to the frame is the tent body or covering 35 having the opening 36 therein for entrance and exit purposes. One side edge of the opening 36 in the body or covering 35 has a casement 37 for a keeper rod 38 while the other edge of said opening 36 has a casement 39 for a latching rod 40, these rods 38 and 40 being formed with separably interlocking hook ends 41

for the fastening of the opening 36 in a closed condition and by the casements 37 and 39 in an overlapped relationship to each other. The casement 39 has a clearance 42 therein for the loop connection 43 with the rod 40 of a hasp 44 separably received in a retaining loop or strap 45 for augmenting the fastening of the casements 37 and 39 in their overlapped relation and in the closing of the opening 36 in the body or covering 35.

The eye and hook terminals 46 and 47, respectively, of the sections 31 and 32 are engaged with an anchoring pin 48. The hook terminal 47 being releasable from the pin 48 for the folding of a flap area 49 of the body or covering 35 in the manner as shown in Figure 9 of the drawings for increasing the opening extent of said body or covering to allow easy entrance into or exit from the tent.

The eyes 30 accommodate anchoring pins 50 which are driven into the ground for the securing of the tent in place when in a set up condition. These eyes 30 have a flat spread thereto for rest position when anchored by the pins 50 to hold the bow 29 perpendicular and to avoid accidental collapsing of the tent when set up for use, the sections 31, 32 and 34 being swingable toward and away from the bow 29 so that when folded toward the bow collapses the tent and when swung away from said bow extends the tent for occupancy.

By releasing the hasp 44, the casements 37 and 39 can be separated from each other on disengaging the latching ends 41 from each other of the rods 38 and 40 so that a person can peep into the tent and in this manner avoiding the opening of the flap area 49 of the body or covering 35, the release of the hasp 44 being had by disengaging it from the loop or strap 45.

The section 34 of the frame at each end thereof has loose connection at 51 with the eye 30 next thereto of the bow 29 so that this section 34 together with the sections 31 and 32 can swing relative to the bow 29 in the collapsing or extending of the tent.

The pair of bows 14 has connected thereto a tie string or the like 52 which limits the swing of these bows 14 away from each other when setting up the tent for use as shown in Figure 1 of the drawings.

In Figure 12 of the drawings there is shown a slight modification of an anchoring pin 53 having the loop head 54 for releasably accommodating straight terminals 55 of the sections 56 of the frame, being a substitute for the construction involving the anchoring pin 48 and terminals 46 and 47 of the sections 31 and 32, respectively, hereinbefore set forth.

In the preferred embodiment of structure the slit 24 in the body or covering 20 affords at opposite sides of said slit or opening foldable flap areas to the body or covering 20. This is also true with regard to the body or covering 35 in that a flap area 49 is present therein at each side of an opening 36 to allow free entrance to and exit from the tent when set up for use.

The flap areas before mentioned carry the sections 10—11 and 31—32, respectively, which latter determines the folding extent of such flap areas.

What is claimed is:

1. A tent of the kind described comprising a foldable frame having a sectional base ring and a bow, an extensible fabric body forming a cover for the frame and having an entrance and exit

opening therein, elongated laterally extending eyes at the end of said bow having the sections of the base ring swingingly connected therewith, the body being formed with openings for the said eyes through which the latter project, and anchoring pins engaged in said eyes for engagement in a foundation.

2. A tent of the kind described comprising a foldable frame having a sectional base ring and a bow, an extensible fabric body forming a cover for the frame and having an entrance and exit opening therein, elongated laterally extending eyes at the end of said bow having the sections of the base ring swingingly connected therewith, the body being formed with openings for the said eyes through which the latter project, anchoring pins engaged in said eyes for engagement in a foundation, and means associated with the body for effecting the closing of the openings therein.

3. A tent of the kind described comprising a foldable frame having a sectional base ring and a bow, an extensible fabric body forming a cover for the frame and having an entrance and exit opening therein, elongated laterally extending eyes at the end of said bow having the sections of the base ring swingingly connected therewith, the body being formed with openings for the said eyes through which the latter project, anchoring pins engaged in said eyes for engagement in a foundation, means associated with the body for effecting the closing of the openings therein, the sections of the base ring next to said opening being formed with anchoring pin receiving terminals, and an anchoring pin separately engaged with said terminals and fastened in the foundation.

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