A. R. NELSON.

TENT.

APPLICATION FILED MAY 13, 1920.

1,388,478.

Patented Aug. 23, 1921.

2 SHEETS—SHEET 1.

FIG. 1

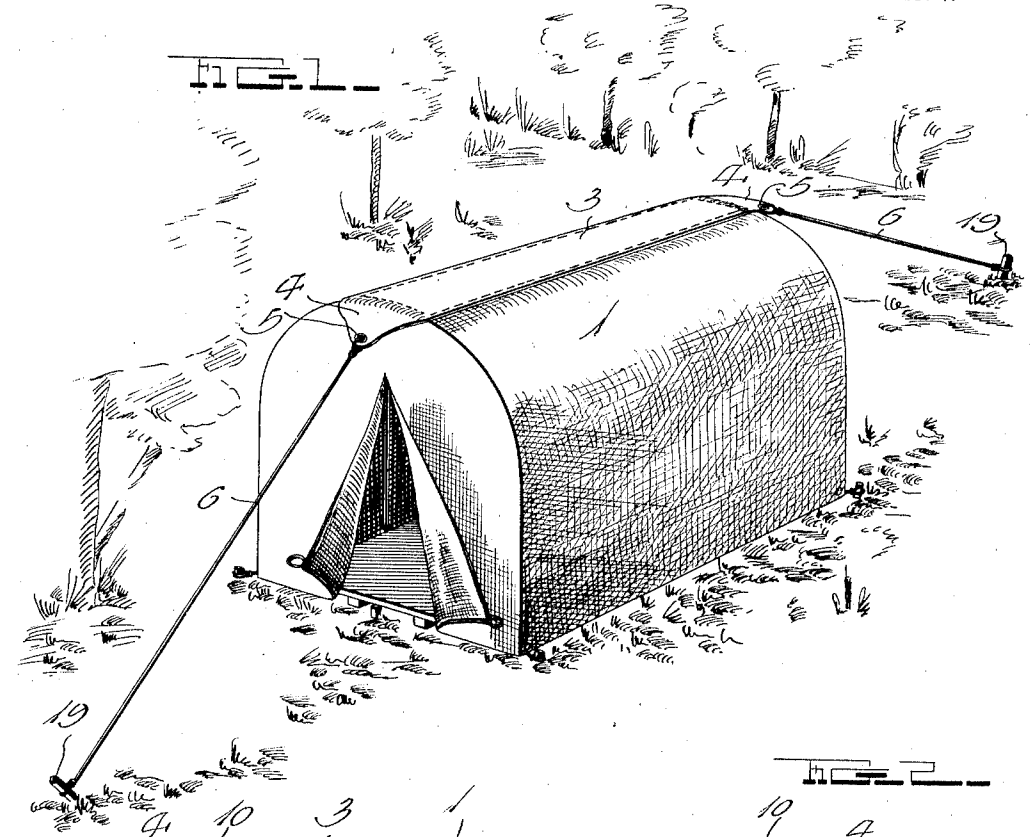
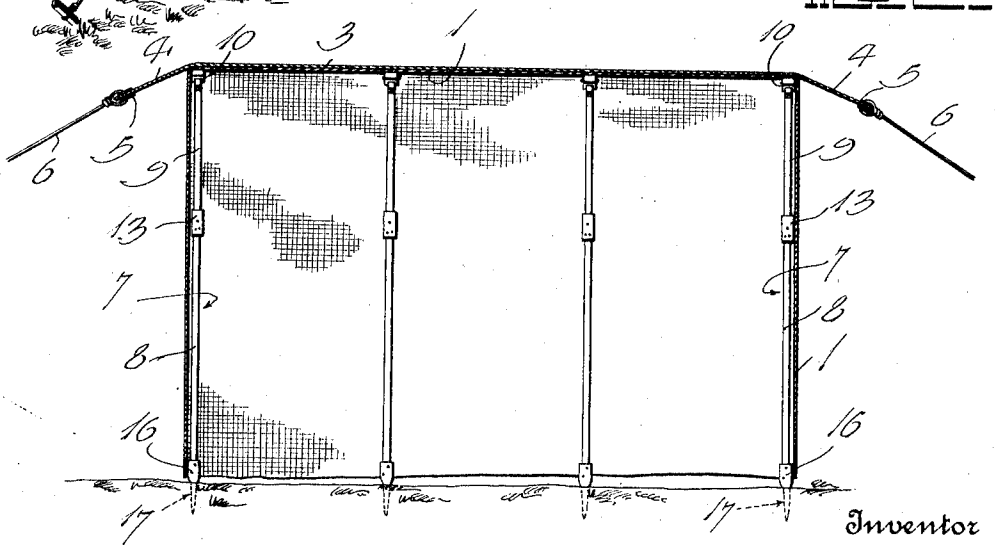


FIG. 2



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2 SHEETS—SHEET 2.

FIG. 3.

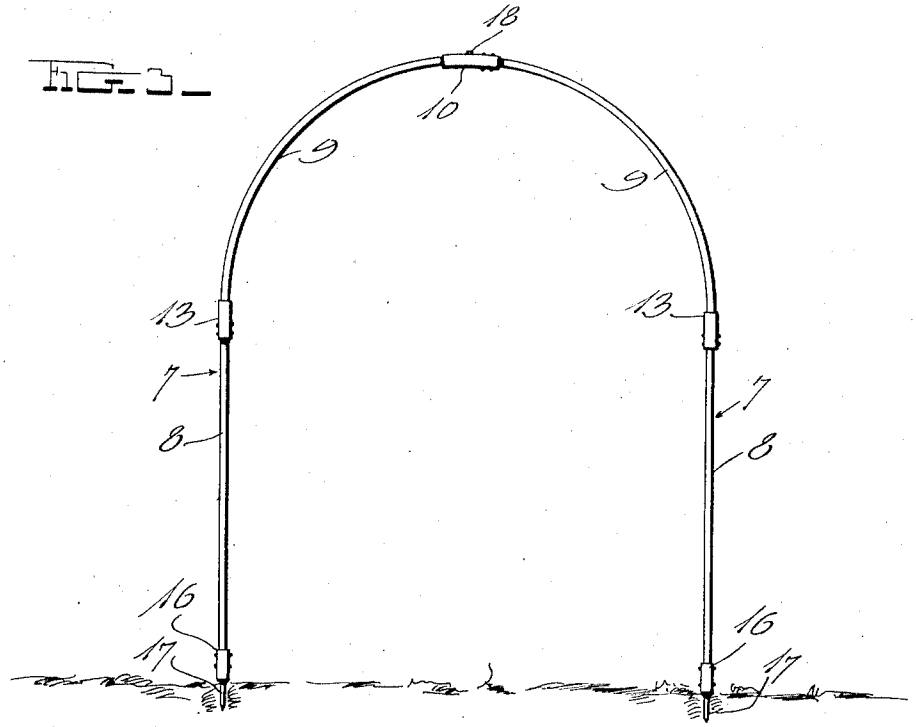


FIG. 4.

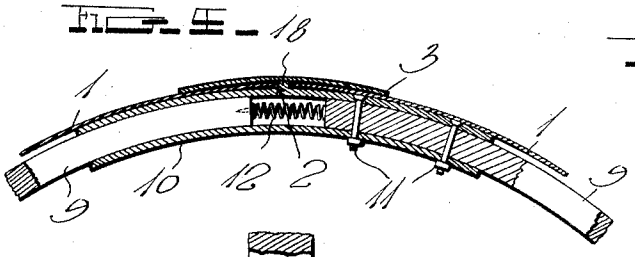


FIG. 8.

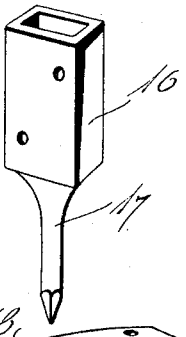


FIG. 5.

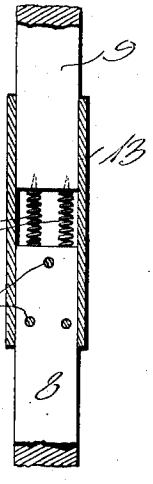


FIG. 6.

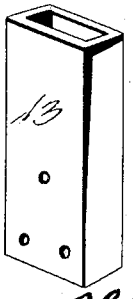
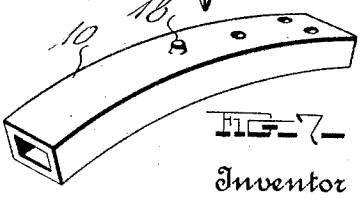


FIG. 7.



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UNITED STATES PATENT OFFICE.

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TENT.

1,388,478. Specification of Letters Patent. Patented Aug. 23, 1921.

Application filed May 13, 1920. Serial No. 381,152.

To all whom it may concern:

Be it known that I, ALBERT R. NELSON, a citizen of the United States, residing at Sheridan, in the county of Sheridan and State of Wyoming, have invented certain new and useful Improvements in Tents; and I do 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 an improved tent and one object of the invention is to provide a tent having a construction which will permit of its being folded and rolled into a small and compact mass for carrying from one place to another and which includes supporting bows or arches formed of a plurality of sections releasably connected and when connected held in tight engagement with the canvas so that the canvas will be kept stretched. When a tent is wet by rain and dries again the canvas will expand and shrink thus making it ordinarily necessary to adjust the guy ropes of a tent after a rain. With this construction the sections of the supporting bows will be yieldably held in tight engagement with the canvas tent by springs positioned in the couplings of the sections and thus the shrinkage and expansion of the canvas will be taken up.

Another object of the invention is to provide the canvas body of the tent with an improved ridge strip which will extend longitudinally of the ridge portion of the tent and not only cover the openings through which the anchoring pins of the bows extend, but also provide a strip which will extend beyond the forward and rear ends of the tent for engagement by guy ropes serving to brace the tent against longitudinal movement.

Another object of the invention is to provide the bows or arches with improved ground engaging shoes which will serve to anchor the bows in the ground and which may also serve as means for engaging loops carried by the walls of the tent and thus serve as means to hold the walls of the tent against upward movement.

This invention is illustrated in the accompanying drawings wherein:—

Figure 1 is a perspective view of a tent provided with the improved construction.

Fig. 2 is a longitudinal sectional view through the tent.

Fig. 3 is an elevation of one of the supporting bows.

Fig. 4 is an enlarged view showing one supporting bow partially in elevation and partially in section and the coupling sleeve for the upper sections of the bow in longitudinal section.

Fig. 5 is a view showing the upper and lower sections of one side of the bow in elevation and the coupling sleeve in section.

Fig. 6 is a perspective view of the coupling sleeve of Fig. 5.

Fig. 7 is a perspective view of the coupling sleeve of Fig. 4.

Fig. 8 is a perspective view of the ground engaging shoe.

This tent is provided with a fabric body 1 which will be preferably formed of canvas and will have the form of an arch or dome in cross section, thus providing a tent having relatively high walls and a roof construction providing ample room in the tent. The ridge portion of the fabric body will be provided at points throughout its length with openings reinforced as shown at 2 in Fig. 4 so that a centering pin hereinafter referred to may pass through the ridge portion of the tent. A strip 3 extends along the ridge portion of the tent with its end portions 4 extended and tapered as shown in Fig. 1 and provided with eyes 5 in which will be fastened the guy ropes 6 serving to brace the tent longitudinally and prevent collapsing of the tent. In addition to providing a reinforcement for the tent, this ridge strip which may be formed of fabric or any other suitable material will extend over the openings in the ridge portion of the tent and thus prevent leakage through these openings.

This fabric body is supported by arches or bows indicated in general by the numeral 7, the bows being positioned transversely of the tent and a suitable number being provided according to the size of the tent. Each of these bows is formed as shown in Figs. 3 through 8 and is provided with lower sections 8 and upper sections 9, the lower sections being straight and the upper sections curved as clearly shown in Fig. 3. The upper sections fit into the end portions of the longitudinally curved coupling sleeve 10 and one of these sections is secured in the sleeve by bolts or other similar fasteners 11 which may be removed when desired. The second upper section carries springs 12 which are connected with the inner end of

the second section and engage the inner end of the first section so that the springs will have a tendency to move the two sections 9 apart and thus hold these sections in close engagement with the roof portion of the tent. The lower ends of these upper sections 9 slidably fit into the sleeves 13 secured upon the upper ends of the lower sections 8 by bolts or other similar fasteners 14 and these upper sections carry springs 15 and assist in holding the sections 9 in close engagement with the roof portions of the tent. It will thus be seen that the upper sections will be held in close engagement with the roof portion of the tent and the wall portions of the tent thus stretched tight as well as the roof portion, the springs 15 tending to move the sections 9 upwardly to stretch the walls of the tent and the springs 12 tending to spread the sections 9 apart and stretch the upper portion of the tent transversely. In order to anchor the bows in the ground each section 8 has been provided with a shoe 16 which is provided with a spike or ground entering pin 17. These pins 17 will be embedded in the ground as shown in Figs. 2 and 3 and may be passed through the usual loops provided in the lower edge portions of a tent wall and will therefore serve as means for tying down the tent walls as well as means for anchoring the bows. It is desirable for the ridge portion of the tent to be properly centered upon the supporting base and therefore each of the coupling sleeves 10 has been provided with a short pin or stud 18 which will pass through the openings 2 and prevent the ridge portion of the tent from moving transversely out of proper engagement with the bows.

When in use the canvas body of the tent will be put in place where the tent is to be set up and the bows which are to be positioned at the forward and rear ends of the tent and which have previously been placed flat upon the ground under the tent will be lifted, thus raising the tent. When lifting the tent care should be taken to place the pins 18 of the end post in the openings 2 at the ends of the tent thus properly centering the tent upon the supporting base. The pins or spikes 17 will be sunken into the ground and the guy ropes 6 connected with the pegs 19 and stretched tight. The remaining bows or arches can be put in place before or after the stretching of the guy ropes and the tent will be set up and ready for use. The springs will hold the sliding section of the bows in tight engagement with the tent and the tent will thus be retained in a tightly stretched condition and leakage prevented. When it is desired to move the tent it is simply necessary to remove the bows after releasing the guy ropes and the bows can then be taken apart or rolled up inside the canvas body of the tent or rolled up in a separate bundle. It will thus be seen that the tent when not in use will occupy a small amount of space and can be easily transported from one place to another.

What is claimed is:

1. A tent comprising a fabric body, supporting bows positioned in the body with their ends engaging the ground and having their upper portions provided with studs passing through the body, and a reinforcing strip extending longitudinally of the body at the ridge and having free end portions extending beyond and out of engagement with the forward and rear ends of the body for engagement by guy ropes.

2. A shelter comprising a body and supporting arches for the body each formed of side members having upper and lower sections, sleeves slidably and releasably connecting the members and sections thereof, and resilient means positioned in the sleeves between the sections to retain the arches in tight engagement with the body.

In testimony whereof I have hereunto set my hand.

ALBERT R. NELSON.