May 13, 1924. **1,493,915**

Z. A. BAKER

SUN AND WIND SHIELD

Filed Aug. 25, 1920 2 Sheets-Sheet 1

Fig. 1.

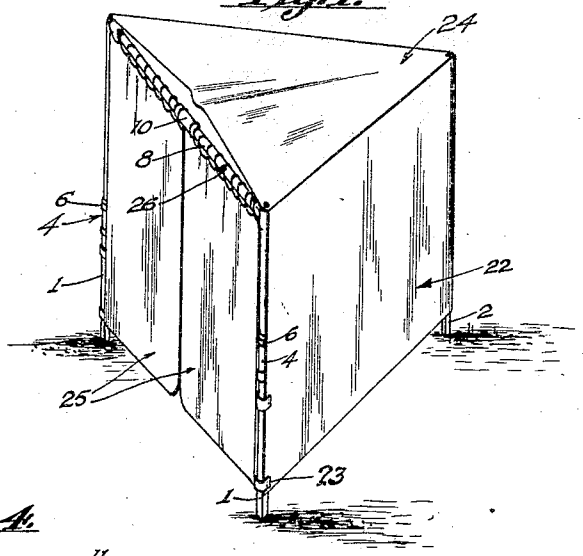


Fig. 4.

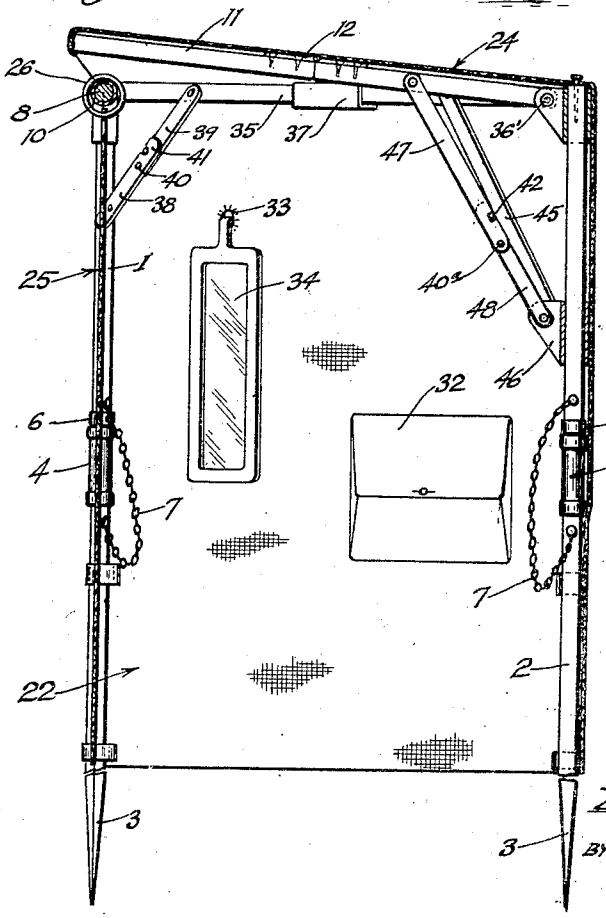
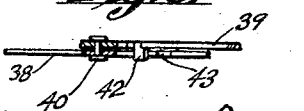


Fig. 5.



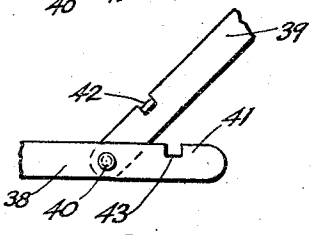


Fig. 6.

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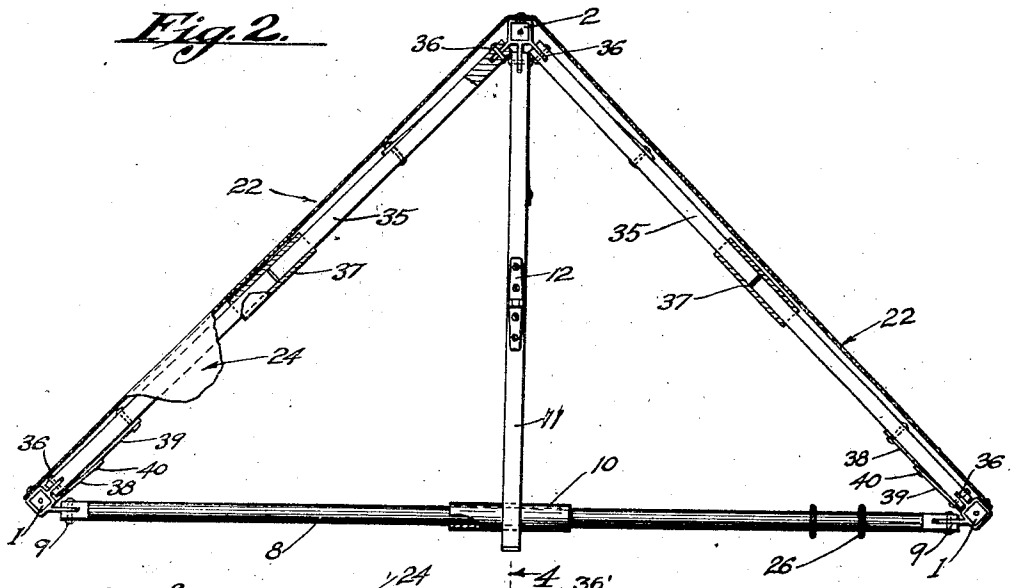
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Z. A. BAKER

SUN AND WIND SHIELD

Filed Aug. 25, 1920 2 Sheets-Sheet 2

Fig. 2.



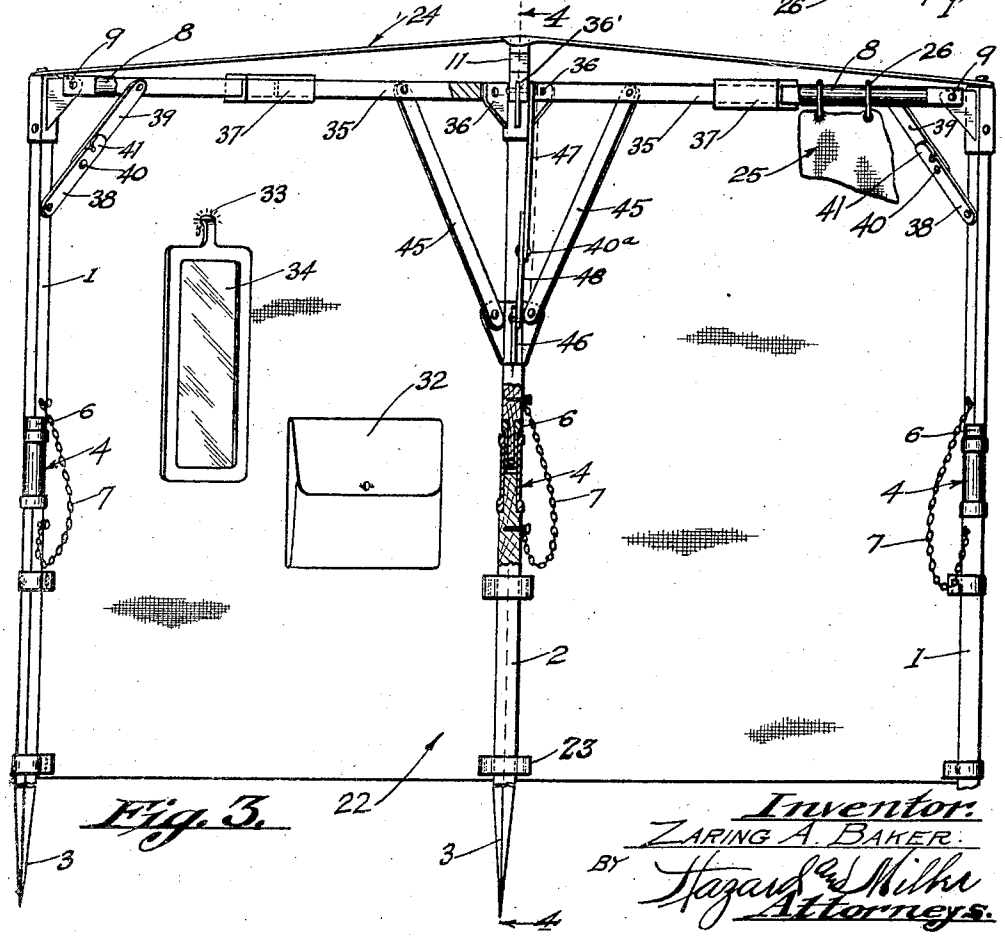


Fig. 3.

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Patented May 13, 1924. 1,493,915

UNITED STATES PATENT OFFICE.

ZARING A. BAKER, OF LOS ANGELES, CALIFORNIA.

SUN AND WIND SHIELD.

Application filed August 25, 1920. Serial No. 405,995.

To all whom it may concern:

Be it known that I, ZARING A. BAKER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Sun and Wind Shields, of which the following is a specification.

It is the object of this invention to provide a shelter or structure which may be quickly set up in position for use, such as upon a beach, in order to provide a tent-like member which will form a sun and wind shield.

The invention also contemplates the provision of a construction which may be readily knocked down and folded into small compass in order that the device may be readily transported, and which will be self supporting when in position for use.

The invention will be readily understood from the following description of the accompanying drawings, in which—

Figure 1 is a perspective view of the device in position for use.

Fig. 2 is a plan view of the same.

Fig. 3 is a front elevation with the front curtain broken away.

Fig. 4 is a vertical section on the line 4—4 of Fig. 3.

Figs. 5 and 6 are detail top and side views of the joint for the braces.

The device is adapted to form a triangular tent-like structure supported at the three corners of a triangle by the front supporting uprights 1 and the rear or third supporting upright 2. The supporting uprights are, preferably, provided with pointed lower ends 3 adapted to be forced into the ground for positioning the uprights.

The supporting uprights are, preferably, each formed in separable sections, one of which terminates in a sleeve 4 received over the end of the section. The other section of the upright terminates in a pin 6 received over the end of the section and adapted to be removably received within the end of sleeve 4 in order to connect the sections of the upright. A flexible connection shown as a chain 7, preferably, connects the two sections of an upright in order to prevent the misplacement of the same.

A cross supporting rod 8 connects the upper ends of front supporting uprights 1. As an instance of this arrangement the cross support is shown as formed of sections hinged to the upper ends of the respective supporting uprights 1 as by the hinges 9 so that said sections may be folded alongside the upper sections of the supporting uprights. A sleeve 10 is received over the meeting ends of the sections forming the cross support so that by shifting said sleeve along the cross support, so as to uncover the meeting ends of the sections, the latter may be readily swung apart.

Supporting rods 35 connect the upper ends of the respective front supporting uprights 1 with the upper end of rear supporting upright 2. These rods are made in sections hinged as shown at 36 to the uprights and having a sleeve 37 received over their meeting ends. The top supporting rod 11 extends forwardly from the rear supporting upright 2 to a point midway of the length of front cross support 8. This supporting rod is made in sections having a hinged connection 12, and the rear end of rod 11 is hinged to supporting upright 2 as by a hinge 36'.

Braces are provided between uprights 1 and supporting rods 35. These braces are shown as sectional braces comprising the sections 38—39 pivoted to the uprights and to the supporting rods respectively. The sections of a brace are pivoted together as shown at 40 with the end of one section extending beyond the pivot as shown at 41. This extension is provided with a recess 43 adapted to engage the lug 42 provided on the other section of the brace so that when the sections forming the brace are swung into longitudinal continuation of one another the co-operating lug and recess will form retaining means for the brace.

Braces 45 are arranged between the rear supporting upright and supporting rods 35. These braces are pivoted at their respective ends to the supporting rods 35 and to a sleeve 46 slidable along the rear supporting upright. A brace is also arranged between sleeve 46 and the top supporting rod 11. This brace comprises pivoted sections 48—47 pivoted to the sleeve and to the supporting rod respectively. The meeting ends of the brace sections are pivoted as shown at 40^a and a retaining means is provided for the brace sections including a co-operating lug and recess 42—43 as previously described.

The parts are so arranged that when the

brace for the top supporting rod is in normal operative position with the brace sections in longitudinal continuation of one another, as shown in Fig. 4, the top supporting rod 11 will be swung upwardly relative to supporting rods 35. By this arrangement a sloping top is provided for the device arranged to provide for the ventilation thereof. The slope of the top may be adjusted by adjusting the angular disposition of rod 11. The rod 11 may be thus angularly adjusted by breaking the pivotal joint between the brace sections 47—48 and thereby causing rod 11 to swing downwardly upon its pivotal connection with rear upright 2.

The sides, front and top covering which are applied to the frame, as thus constructed, are preferably of canvas, the sides being shown at 22, and the top 24 being shown as a continuation of the respective sides 22. The covering is secured to uprights 1 and 2 as by means of loops 23 upon the covering.

The front of the device, preferably, comprises curtains 25 each of which is secured to one of the supporting uprights 1 with the meeting edges of said curtains midway of the front of the device. These curtains may be supported from rod 8 by means of usual curtain rings 26 upon the upper edges thereof received upon the respective sections of rod 8.

A suitable pocket 32 may be formed upon the interior surface of one of the side walls 22, and said side wall is, preferably, also provided with an opening 33 arranged to receive the supporting hook of a mirror 34.

When the device is in operative position the corner uprights are forced into the ground and will be braced in position relative to one another by the side supporting rods. The flexible covering for the frame is then placed upon the same and the top is raised or lowered to obtain the desired ventilation by adjusting supporting rod 11.

When it is desired to fold the device for transportation the sections of the corner uprights are taken apart and placed along side one another. The sections of the side supports and of the front cross support are taken apart and the respective sections swung upon their pivots along side the corner uprights, the sleeve 46 sliding downwardly along the rear supporting upright to permit of said folding of the side supports and of the top support 11. The sections of the top support are folded upon one another and then swung upon their pivot along side the rear supporting upright. The flexible covering of the device is then wrapped around the folded supporting frame and the structure is thus folded into a relatively small space so that it may be conveniently transported.

Various changes may be made without departing from the spirit of the invention as claimed.

What is claimed is:

1. A collapsible structure including three corner uprights, two of them being in front and one of them at the rear, a top support pivoted to the rear upright, an adjustable brace connected to said rear upright and to said top support, said brace being provided with a pivotal joint, permitting adjustment by a breaking and a flexible covering for said structure.

2. A collapsible structure including three corner uprights, two of them being in front and one of them at the rear, a top support pivoted to the rear upright, a collapsible brace adjustable along said rear upright and connected to said top support, said brace being provided with a pivotal joint, permitting adjustment by a breaking and a flexible covering for said structure.

3. In a knock-down shelter comprising three uprights carrying diagonal braces and a pitched triangular roof, horizontal bars comprising sleeves and connected to said uprights to define an enclosure, the bar between two of said uprights provided with a curtain movable thereon, and the rear upright carrying pivoted thereto a roof-supporting rod, an additional brace therefor, an element which is slidable on said rear upright, and to which said additional brace is pivotally connected, uprights being jointed and said horizontal connector bars being pivotally connected to said uprights and secured by said diagonal braces, and being respectively made in separable sections respectively connected by said sleeves, that brace which extends from said sliding element on said third upright being adapted to "break" for adjustment but being of such length and so secured by those diagonal braces extending to the adjacent horizontal connecting bars that it normally uplifts said roof-supporting rod relatively to said adjacent horizontal connecting bars to impart a pitch to said roof.

In testimony whereof I have signed my name to this specification.

ZARING A. BAKER.