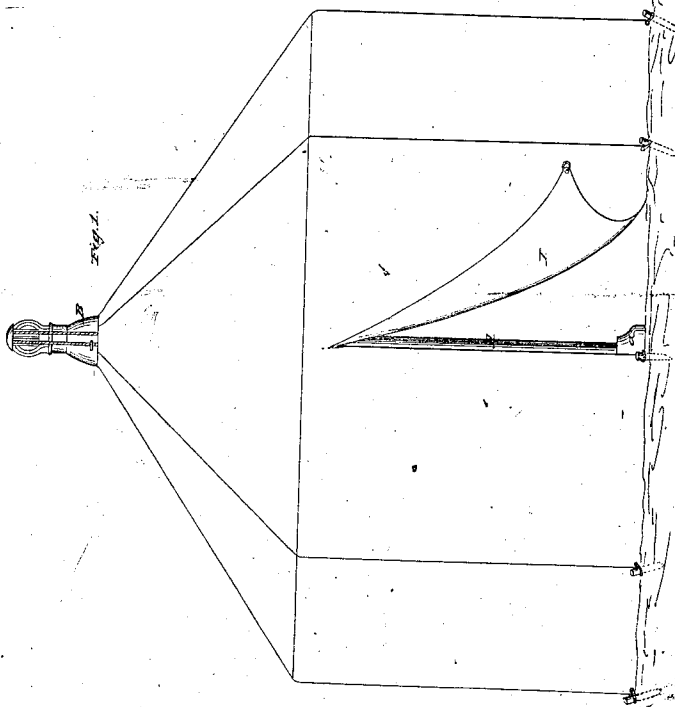
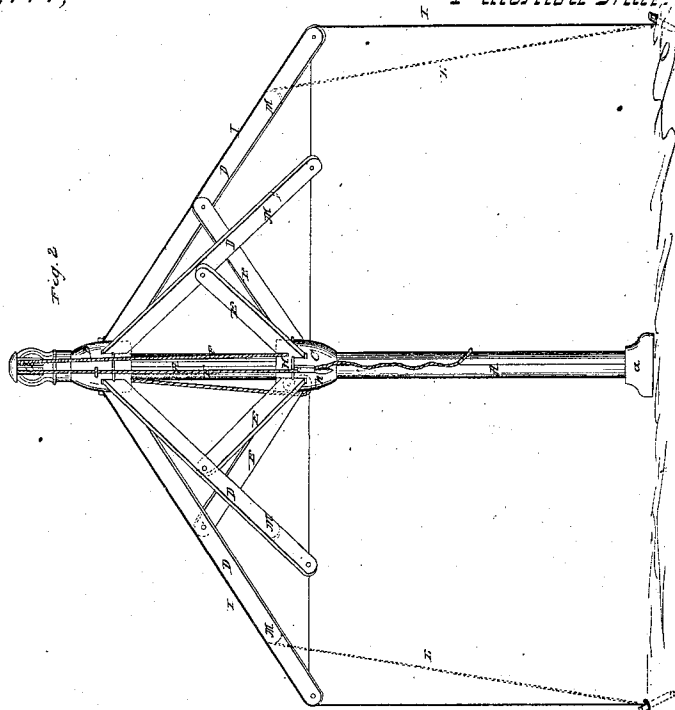


B.B. Harse,

Tent,

N^o 34,717,

Patented Mar. 18, 1862.



Witnesses

J. P. Thompson
J. P. Thompson

Inventor
B.B. Harse

UNITED STATES PATENT OFFICE.

BENJAMIN B. HAWSE, OF MORRISVILLE, VERMONT, ASSIGNOR TO CARLOS
PIERCE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN TENTS.

Specification forming part of Letters Patent No. 34,717, dated March 18, 1862.

To all whom it may concern:

Be it known that I, BENJAMIN B. HAWSE, of Morrisville, in the county of Lamoille and State of Vermont, have invented a new and useful Improvement in the Construction of Tents; and I do hereby declare that the following is a full, clear, and exact description of the nature and operation of my said invention, taken in connection with the accompanying drawings, making part of this specification, in which—

Figure 1 is an elevation of the tent, and Fig. 2 a vertical elevation of the frame-work, with the canvas removed in front.

The letters indicate like parts in both figures.

The subject-matter of my invention relates to the construction of tents which are of a pyramidal or conical form, which are supported at the center or apex by a single pole. In such tents as usually constructed the sides extend from the apex to the ground unsupported except by the tension of the canvas. This kind of tent is very simple in its construction, but is objectionable because the inclination of the sides inward very much incommodes the occupants when standing, as at the height of the head the interior area is very much diminished unless the apex is carried up to an objectionable height.

My invention consists in the employment in the upper part of the tent, above the heads of the occupants, of a distending frame for carrying the sides outward, so that below the frame they may be nearly or quite perpendicular, which frame is so constructed as to fold up to the tent-pole with the canvas, so as to be conveniently carried. By this means a much more commodious tent is obtained upon the same area of ground and with less height than those heretofore in use.

The distending frame that I have employed and shown in the drawings is constructed substantially like that represented in the Letters Patent granted to me January 3, A. D. 1860, for a clothes-drier, where a similar structure is used to distend the lines upon which the clothes are suspended for the purpose of drying, excepting that in this case the long arms of the frame are placed uppermost instead of below.

In the drawings, A is the tent-pole, either set in the ground or in a socket *a*, as shown, as may be preferred. Upon this are fitted two hubs B and C, to the upper one of which B a series of radial arms D are jointed, upon which the upper portion of the canvas rests, and to the lower one C are jointed a corresponding number of braces E, which are also jointed to the arms D, as shown. This frame in its structure and operation is analogous to the frame of an umbrella, the arms being extended or spread by bringing the hubs B and C toward each other or practically by raising the lower hub C, which is done by the cord F and pulleys G and H, and is secured by the eccentric catch K, as is done in my clothes-drier hereinbefore referred to.

I is the canvas, the upper part of which is made of a proper pyramidal form to fit the arms D of the distending frame, as is shown in the drawings, and give the roof of the tent the inclination desired. That part of the canvas below the frame which makes the walls of the tent may be made of any desirable form, either vertical, as is shown, or inclined, as indicated by the red lines L, in which case the arms D of the distending frame would be made shorter, as is shown by the red lines at M.

The canvas may be secured to the ground by any of the usual modes, and provided with a "fly" or any other analogous contrivances, and secured by guy-ropes in any desired manner; but as my invention does not particularly relate to such matters I shall not describe them further.

In erecting the tent the pole A is first set up and the distending frame opened to a considerable extent, when the canvas is secured to the ground in a proper position by tent-pins, or otherwise. The frame is then further expanded by the cord F and pulleys until the proper tension is given to the canvas. When the tent is taken down, the frame is folded up close to the pole and all are rolled up together in the canvas in a compact and convenient form for transportation.

Now, I do not confine myself to the particular form of distending frame shown, as the construction may be modified and still retain the properties of being expanded to the

extent desired and of folding up when not in use; but the one that I have shown I consider the best and have used it with the best result.

Having thus set forth the nature and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—
The employment of an expanding and fold-

ing frame for distending the upper part of a tent, substantially as described.
October 4, 1861.

B. B. HAWSE

Witnesses:

J. P. CAPRON,
T. CAPRON.