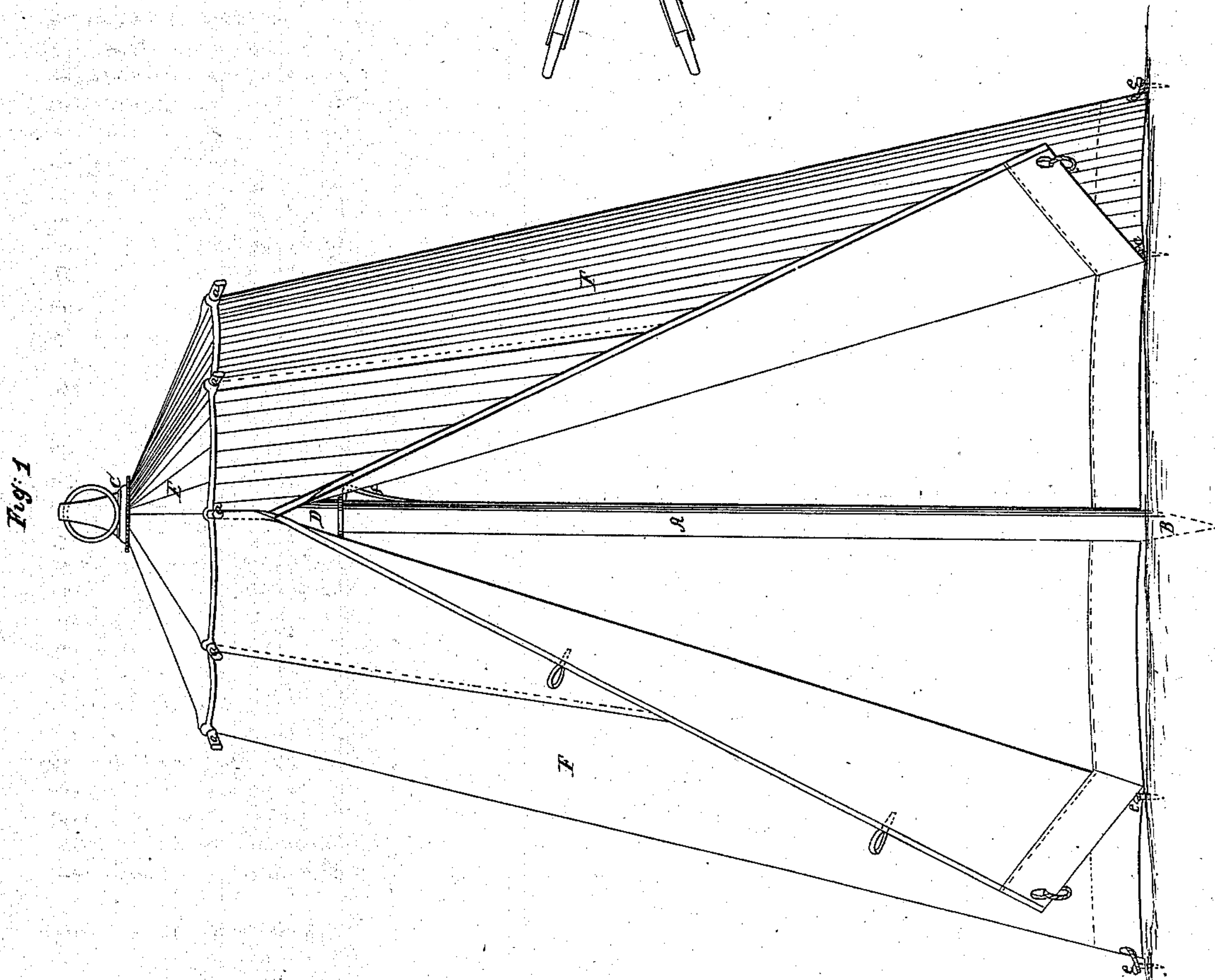
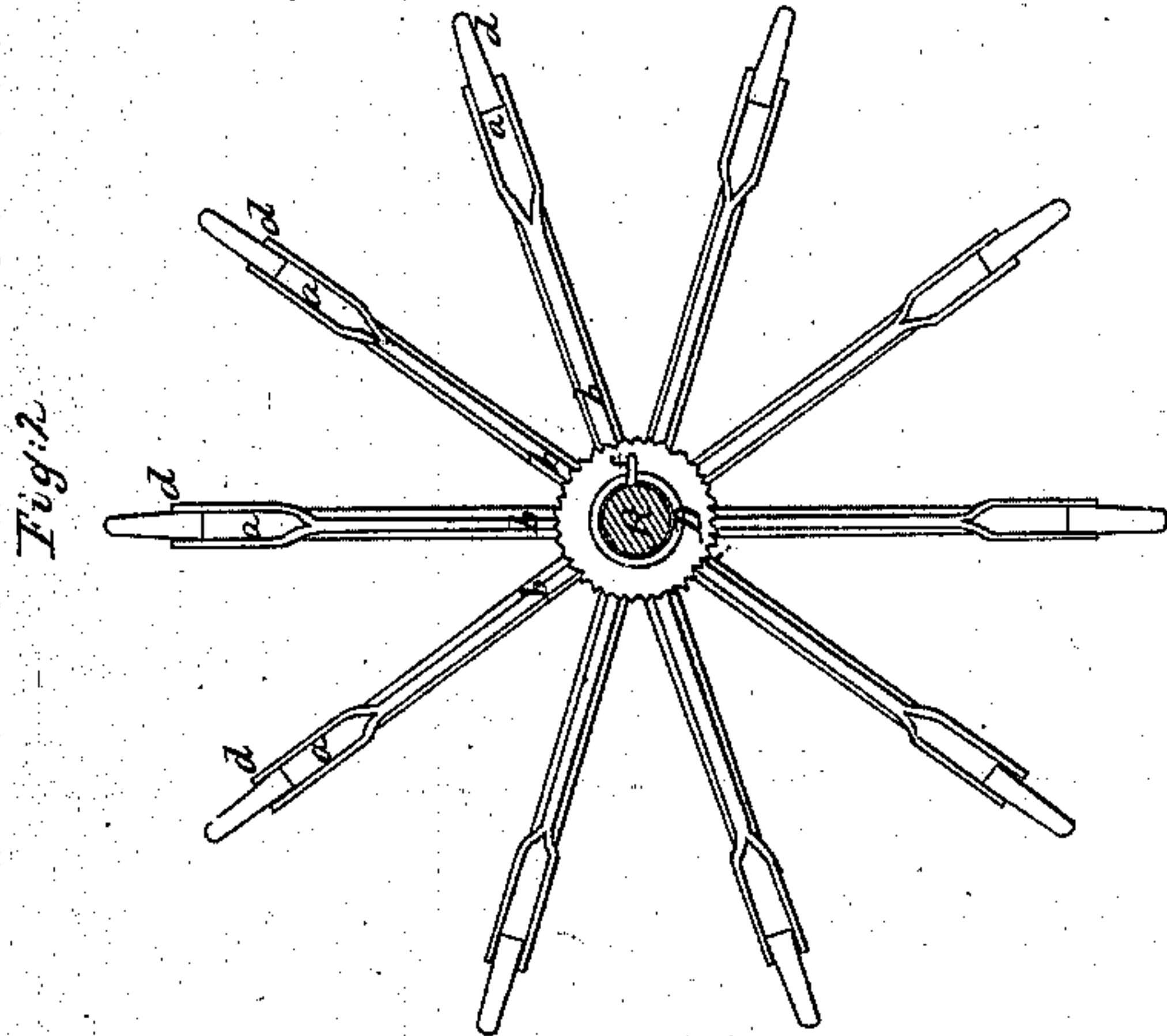


S. Heiter,

Tent,

N^o 35,235.

Patented May 13, 1862.



Witnesses.
J. B. Woodruff
L. F. Callan

Inventor
Simon Heiter

UNITED STATES PATENT OFFICE.

SIMON HEITER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN TENTS.

Specification forming part of Letters Patent No. 35,235, dated May 13, 1862.

To all whom it may concern:

Be it known that I, SIMON HEITER, of the city and county of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Tents for Army and other Purposes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a front view, and Fig. 2 a view of the underside of the ribs and braces of the roof when the apparatus is expanded.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I prepare a staff, A, about ten feet long, one end of which, B, is pointed and shod with iron. The other end, C, is provided with a fixed ferrule, around and to which are hinged a number of radial arms or ribs, *a*, sufficient to afford the requisite strength and support to the canvas covering.

D is a sleeve which slides up and down the staff, and which has hinged to it the lower ends of the braces *b*, equal in number to the radial arms or ribs *a*. The other ends of these braces are hinged to the several radial arms or ribs near their outer ends, as seen at *d*. A canvas covering, E, is stretched over and secured to the ribs *a* in the same manner that the cloth is attached to the ribs of an umbrella, which canvas extends down all around the tent and furnishes its sides F. The length of the canvas sides is greater by several inches than the distance from the surface of the ground to the ends of the ribs when the tent is set, so that the said sides, when they are pinned, as at *e*, may incline inwardly from the ground to the top, thus furnishing all the exterior bracing the structure requires.

It will be seen from this description that

the tent is set by simply driving the pointed end of the staff into the ground and raising the sliding sleeve until it is caught and retained by the spring *f*, in the same manner that an umbrella is spread. This operation extends the ribs *a* and stretches the canvas top and suspends the sides, when they are drawn outwardly and pinned, as represented. The tent is struck in an equally expeditious manner. The pins are removed, the ribs lowered by releasing the sleeve, and the staff extricated from the ground, when the whole apparatus thus folded—the canvas top in between the ribs and the canvas sides down along the staff—is packed for transportation. The canvas top being permanently attached to the ribs and the canvas sides to the canvas top, there are no separate parts to be looked after and attached and no adjustment of the canvas to the frame is required.

When the tent is set, the vertical space within is seven feet, and the distance from the braces *b* at their connection with the sleeve to the top is two feet. This space and the braces may be utilized for stowing away and suspending the equipages of the soldiers.

Having thus described my invention and pointed out the manner in which it operates, what I claim as new therein, and desire to secure by Letters Patent of the United States, is—

A tent having expanding and contracting ribs, like an umbrella-frame, to which are permanently attached the canvas top and sides, the whole being constructed and operating substantially in the manner above set forth.

In witness whereof I have hereunto set my hand this 28th day of September, 1861.

SIMON HEITER.

In presence of—

J. B. WOODRUFF,

L. F. CALLAN.