

(No Model.)

D. S. SATTERLEE & H. KEMMERER.
HAY CAP.

No. 463,077.

Patented Nov. 10, 1891.

Fig. 1.

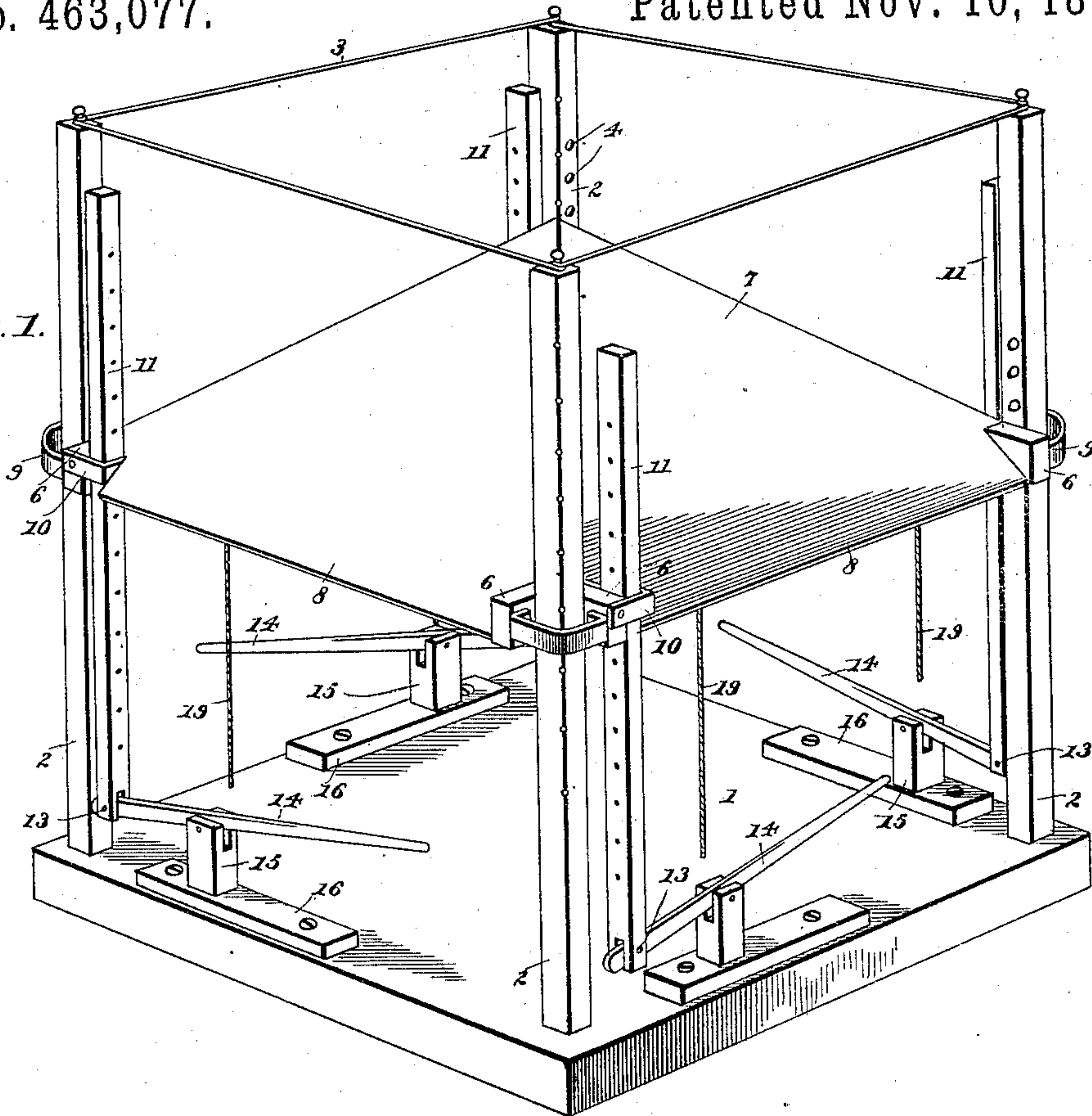
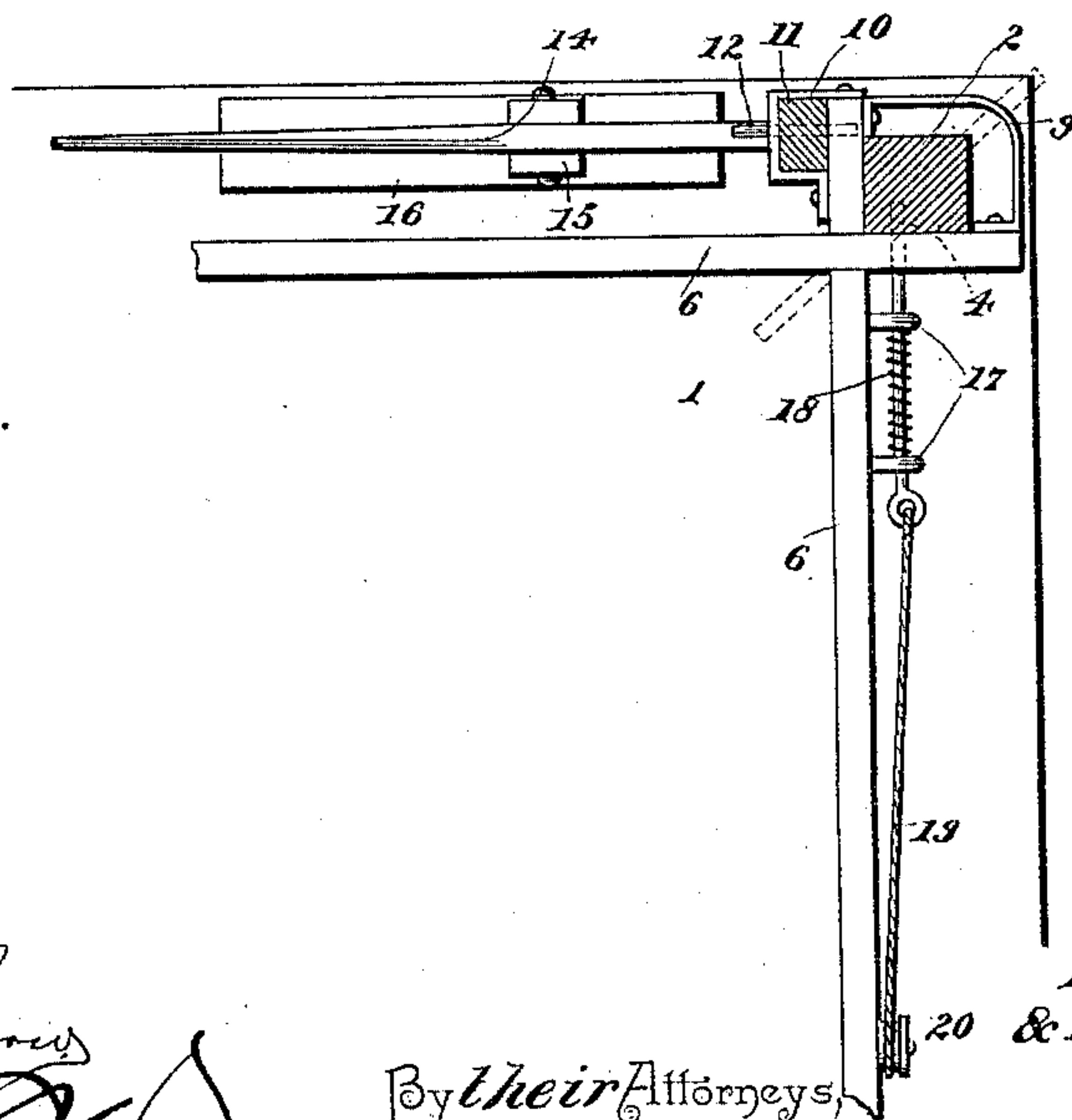


Fig. 2.



Witnesses;

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UNITED STATES PATENT OFFICE.

DANIEL S. SATTERLEE AND HENRY KEMMERER, OF BOONE, IOWA.

HAY-CAP.

SPECIFICATION forming part of Letters Patent No. 463,077, dated November 10, 1891.

Application filed November 4, 1890. Serial No. 370,300. (No model.)

To all whom it may concern:

Be it known that we, DANIEL S. SATTERLEE and HENRY KEMMERER, citizens of the United States, residing at Boone, in the county of Boone and State of Iowa, have invented a new and useful Improvement in Hay-Caps, of which the following is a specification.

This invention has relation to improvements in hay-caps; and the objects in view are to provide a hay-cap which may be raised and lowered to accommodate the same to different quantities of hay, which may be portable or otherwise, and which will thoroughly protect the hay which it surmounts.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a hay-cap constructed in accordance with our invention. Fig. 2 is a detail in plan of one corner of the same, the roof being removed.

Like numerals of reference indicate like parts in both the figures of the drawings.

1 designates a rectangular base or platform, from the four corners of which rise vertical posts 2. In this instance the device is designed to be portable, and hence the character of base described is employed. When, however, the device is not to be portable, but permanently located at a suitable point, the posts may be set into the ground. The posts 2 are connected at their upper ends by a suitable tie-wire or brace 3, and said posts upon their inner sides are provided with a vertical series of perforations 4.

The roof-frame is of rectangular shape and comprises in its make-up the pairs of opposite side beams 6, which are let into each other at their intersecting points, so that the ends of the beams extend beyond the corners, as shown, and embrace the four posts, so that said beams form a guide adapted to ride up and down the posts as the roof is raised and lowered.

7 designates the conical roof, and the same extends up to the posts and between the same is extended to form water-sheds 8. By this construction we avoid cutting or recessing

the roof for the passage of the posts. The ends of each pair of sills beyond the corners are connected by a metal strap 9, which loosely fits the post, and at one side and end of each sill there is located a keeper 10. This keeper receives a reciprocating bar 11, which is perforated and has passed through one of its perforations a removable pin 12. The lower end of the bar is bifurcated and receives and is pivoted, as at 13, to the outer end of a hand-lever 14, which latter is fulcrumed upon the bearing-standards 15, located upon the base 16, the lever, standard, and base composing an ordinary jack. A jack thus constructed is preferably located at each of the four corners of the cap, though, if desired, but one jack may be employed. Each of the side beams 6 is provided with a pair of keepers 17, and in the same is mounted for reciprocation a bolt 18, normally pressed into an adjacent hole 4 of an adjacent post. A cord 19 is connected to the outer end of each bolt and passes over and depends from a loose pulley 20, projecting from the beam.

To raise a corner of the cap the jack at that end is operated and previous thereto the bolt is withdrawn from the post to permit of the operation of the jack. If desired, the same jack may be moved to the other posts and thus operated, or each post provided with a jack. Where but one jack is employed it may be preferable to employ simply an ordinary supporting-pin, removably inserted in the openings of the post.

Having described our invention, what we claim is—

1. The combination, with the four posts, the cap loosely connected therewith, keepers extending from the same at its corners, of a lifting-jack, a perforated bar extending from the jack into the keeper, and a pin for locking the cap in an adjusted position with the keeper, substantially as specified.

2. The combination, with the four posts having a series of openings, of the cap comprising the pairs of opposite beams let into each other and extended beyond their corners or points of intersection to embrace the posts, the cap-roof mounted upon the beams and extended at its edges between the posts,

metal straps passed around the posts and connecting the beams, keepers located upon one end of each beam, a jack located under one of the keepers, a perforated bar pivoted to
5 the end of the jack-lever and removably mounted in one of the keepers, a removable pin mounted in the bar, a pair of keepers located at the side of each beam, a spring-pressed bolt mounted therein and adapted to
10 engage openings in the adjacent posts, a pulley, and an operative cord connected to the

end of the bolt and passed over the pulley, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

DANIEL S. SATTERLEE.
HENRY KEMMERER.

Witnesses:

J. H. SCHUNEMAN,
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