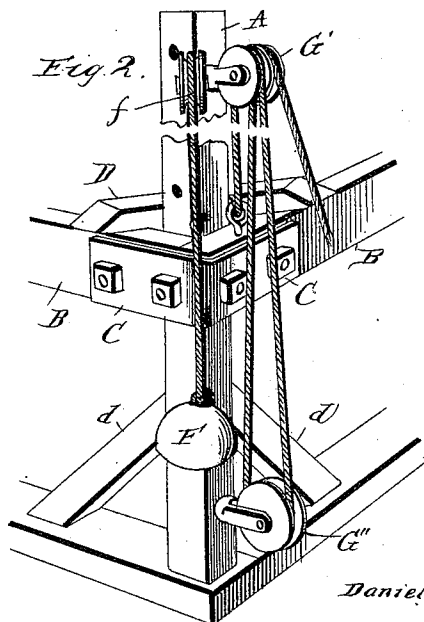
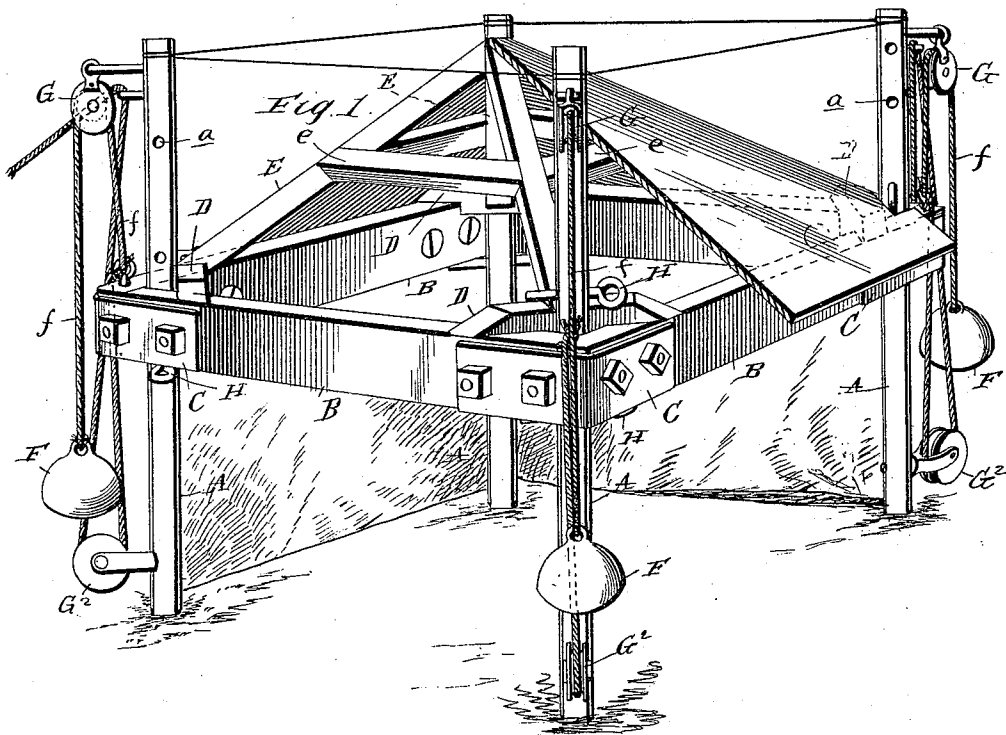


(No Model.)

D. S. SATTERLEE & H. KEMMERER.
SHED.

No. 451,775.

Patented May 5, 1891.



Witnesses
[Signature]
Vernon Durin Hillyard.

Inventors
Daniel Sutherland Satterlee
Henry Kemmerer

By
[Signature]
their Attorneys

UNITED STATES PATENT OFFICE.

DANIEL SUTHERLAND SATTERLEE AND HENRY KEMMERER, OF BOONS-
BOROUGH, IOWA.

SHED.

SPECIFICATION forming part of Letters Patent No. 451,775, dated May 5, 1891.

Application filed November 22, 1889. Serial No. 331,173. (No model.)

To all whom it may concern:

Be it known that we, DANIEL SUTHERLAND SATTERLEE and HENRY KEMMERER, citizens of the United States, both residing at Boonsborough, in the county of Boone and State of Iowa, have invented certain new and useful Improvements in Sheds; and we do declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to sheds for hay, grain, agricultural implements, and livestock, which will answer equally well for tents and a shelter for general use.

The object of the invention is to provide a simple shed and convenient and efficient means for adjusting the roof, the latter being counterbalanced and loose at the angles, whereby one corner can be moved at a time. The roof is held to the supports by pins which pass through said supports above and beneath the roof.

The improvement consists of the novel features which will be hereinafter more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a perspective view of the shed, the roof-covering being partly removed. Fig. 2 is a detail view showing a counterbalancing-weight, double and single pulley, and braces for the supports.

A represents the supports or posts on which the roof is carried and is adjustable. There may be as many of these supports as required, four being shown, as this is the number that will be most generally employed. The roof-frame comprises four sills B, which form a rectangle and are united at their corners by angle-plates C, the angle-braces D, the rafters E, and the braces *e* between the rafters. The roof-covering is secured to the rafters and may be of any suitable material. The rafters converge and are suit-

ably connected together at the apex of the roof and are secured at their lower ends to the angle-braces D. The supports A pass through the space between the corners of the sills B and the said angle-braces D and have a series of openings *a*. These supports A may be set in the ground, as shown in Fig. 1, or secured to a platform, as shown in Fig. 2. In the latter case they are braced laterally by the braces *d*. The wire connecting the supports at the top prevents them from spreading. The roof is counterbalanced by the weights F, one at each corner, which are secured to the cords *f*, which are connected at their inner ends to the roof, and which pass over pulleys G at the top of the supports. Instead of a single pulley, as shown in Fig. 1, a double pulley G' may be placed at the top of the support and a single pulley G² at the bottom thereof, the cord passing around said pulley substantially as shown in Fig. 2.

The roof is held in place on the supports by pins H, two for each support, which pass through the openings in the supports above and below the roof, thereby holding the roof from movement in either direction. Canvas secured to and stretched from one post to the other closes in the sides of the said shed.

Instead of a separate rope at each corner for adjusting the roof, a single rope can be made to answer the same purpose. In this event a center post will be provided, and the ropes and pulleys will be attached thereto. Another obvious construction would be clips or rings at the corners of the frame for the corner-posts to pass through.

Having fully described our invention, what we claim, and desire to secure by Letters Patent, is—

The hereinbefore shown and described shed for grain, stock, and implements, comprising corner-posts which are securely braced and which have a series of openings near their upper ends, the sills B, the angle-plates C, connecting the sills together at their corners, the angle-braces D for strengthening the frame and confining the posts in the corners between the sills and the said angle-

braces, the rafters connected with the angle-
braces and sloping up, the covering secured
to the rafters, the ropes secured to the frame
and passing over pulleys on the posts and
5 weighted at their lower ends, and pins to
pass through the said openings in the posts
to hold the roof in the located position, sub-
stantially as described.

In testimony whereof we affix our signatures
in presence of two witnesses.

DANIEL SUTHERLAND SATTERLEE.
HENRY KEMMERER.

Witnesses:

GEO. BUZLY,
THOS. J. BLACK.