R. MONTGOMERY.

SECTION-ROOFS FOR SHELTERING GRAIN, &c.

No. 194,455. Patented Aug. 21, 1877.

Fig. 1.

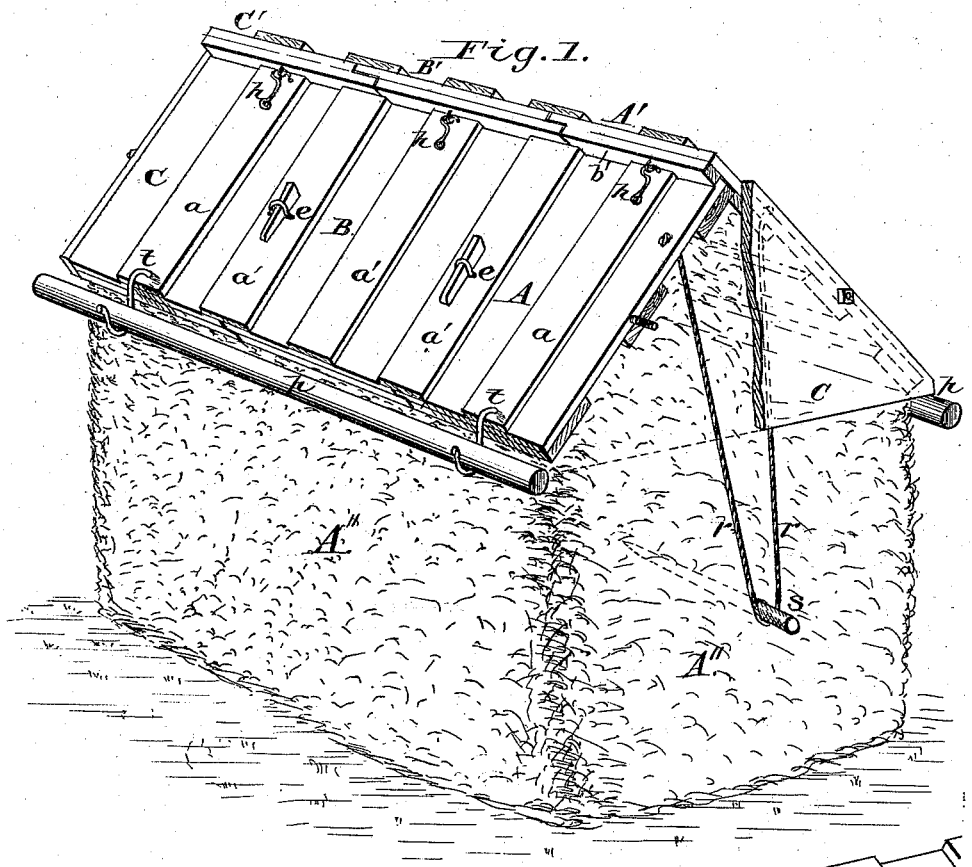


Fig. 2.

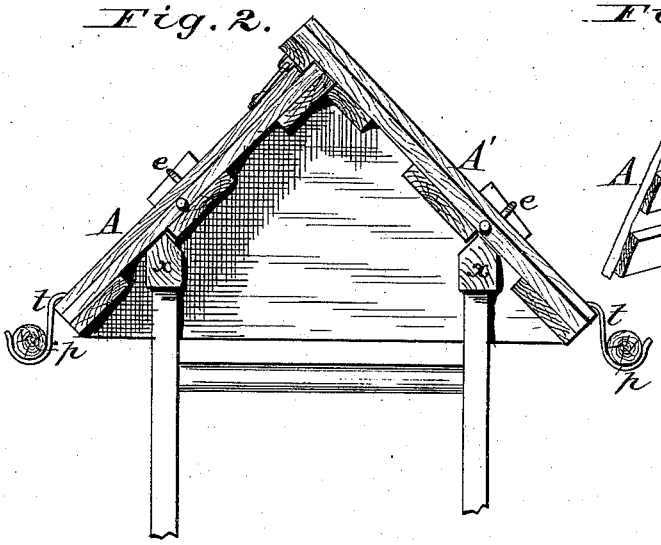
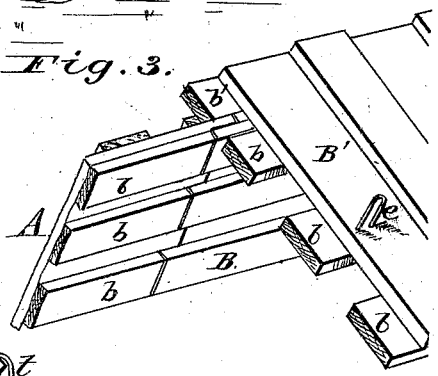


Fig. 3.



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ROBERT MONTGOMERY, OF TROY, IOWA.

IMPROVEMENT IN SECTION-ROOFS FOR SHELTERING GRAIN, &c.

Specification forming part of Letters Patent No. **194,455**, dated August 21, 1877; application filed July 19, 1877.

To all whom it may concern:

Be it known that I, ROBERT MONTGOMERY, of Troy, Davis county, Iowa, have invented an Improvement in Section-Roofs for Sheltering Grain, Hay, &c.; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a grain stack or rick covered with my section-roof. Fig. 2 is an end view of my roof; and Fig. 3 is a view with one section removed.

My invention relates to a device for covering hay and grain either in the stack or rick, or even upon the wagon during the process of gathering in, if a storm should suddenly arise, or it may be used upon a frame for any temporary roof about a farm.

My invention consists of a roof made in sections properly cleated together, the cleats making the rabbets and the splices necessary to form the roof. The sections on the sides are fastened together by staples and pins, and the two sides secured together by hooks and staples, while the whole roof is secured to the rick or stack by ropes and stakes, and loaded by weight-poles at the eaves.

The sections of my roof are quite uniform in construction, so that many or few sections may be fastened together to make a long or short roof at will, the only precaution necessary being to see that the proper end sections are in place.

The sections are made of light but strong boards cleated vertically on the outside and horizontally on the inside, the side of the cleat forming the splice on the outside, and the ends of the cleats forming the splice in the inside, while the space between the upper cleats on the one side forms the rabbet for the edge of the other side.

In the drawings, A, B, and C represent one side of my roof, and A′, B′, and C′ the other side. Each side, in the drawings, is divided into three sections, but there may be more by duplicating the middle sections. Each section is composed of thin boards with vertical cleats on the outside, as at *a a a*, and horizontal cleats on the inside, as at *b b b*. The outer cleats *a′* on the outside of each section form the splice of that section, and cover the joint between it and the next, and the inner horizontal cleats *b* project on the opposite side of each section, and assist in forming the splice. The end sections, of course, do not project.

Upon the side of each section where the horizontal cleats project a staple, *e*, is secured, which passes through a slot in the projecting vertical cleats, and secures the sections together by a pin passing through the staple.

The sides A′, B′, and C′ are longer than the opposite sides, and have an extra cleat, *b′*, at the top. The space between the cleat *b′* and the next one forms a rabbet for the admission of the top end of the sides A, B, and C, and these ends are held in place by staples and hooks *h h h* at each section.

To keep the ridge of my roof upon the grain, I secure the rope *r r* upon each side of the roof, and anchor it into the grain A″, as shown at *s*.

Upon each end of my roof I bolt the gable end C by means of bolts in the edge of the roof; and to keep the eaves of my roof in place I place a weight-pole in the pending hooks *t*.

If more security is needed more ropes may be applied and anchored as shown.

The operation of taking my roof down will sufficiently illustrate the putting of it together, and is in this wise: Remove the weight-poles *p* from the hooks *t*, then remove the pin from the staple *e* of the section A′, and unhook the hook *h* of the same section, and the section A′ may then be removed, after the rope *r* is loosened. The section A may then be removed by removing the pin from its staple, and so each section may be taken down and piled away for future use.

If a frame should be needed it can be constructed in the usual way, and applied as shown at *x x*.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The sectional roof herein described for sheltering grain, consisting of the sections constructed of boards cleated vertically on the

outside and horizontally on the inside, the cleats forming the rabbets and splices for the joints, the whole secured together by staples, hooks, and bolts, and to the grain by ropes and stakes, all arranged substantially as described.

The above specification of my said invention signed and witnessed at Troy this 10th day of July, A. D. 1877.

ROBERT MONTGOMERY.

Witnesses:
WM. YOUNG,
T. O. NORRIS.