

(No Model.)

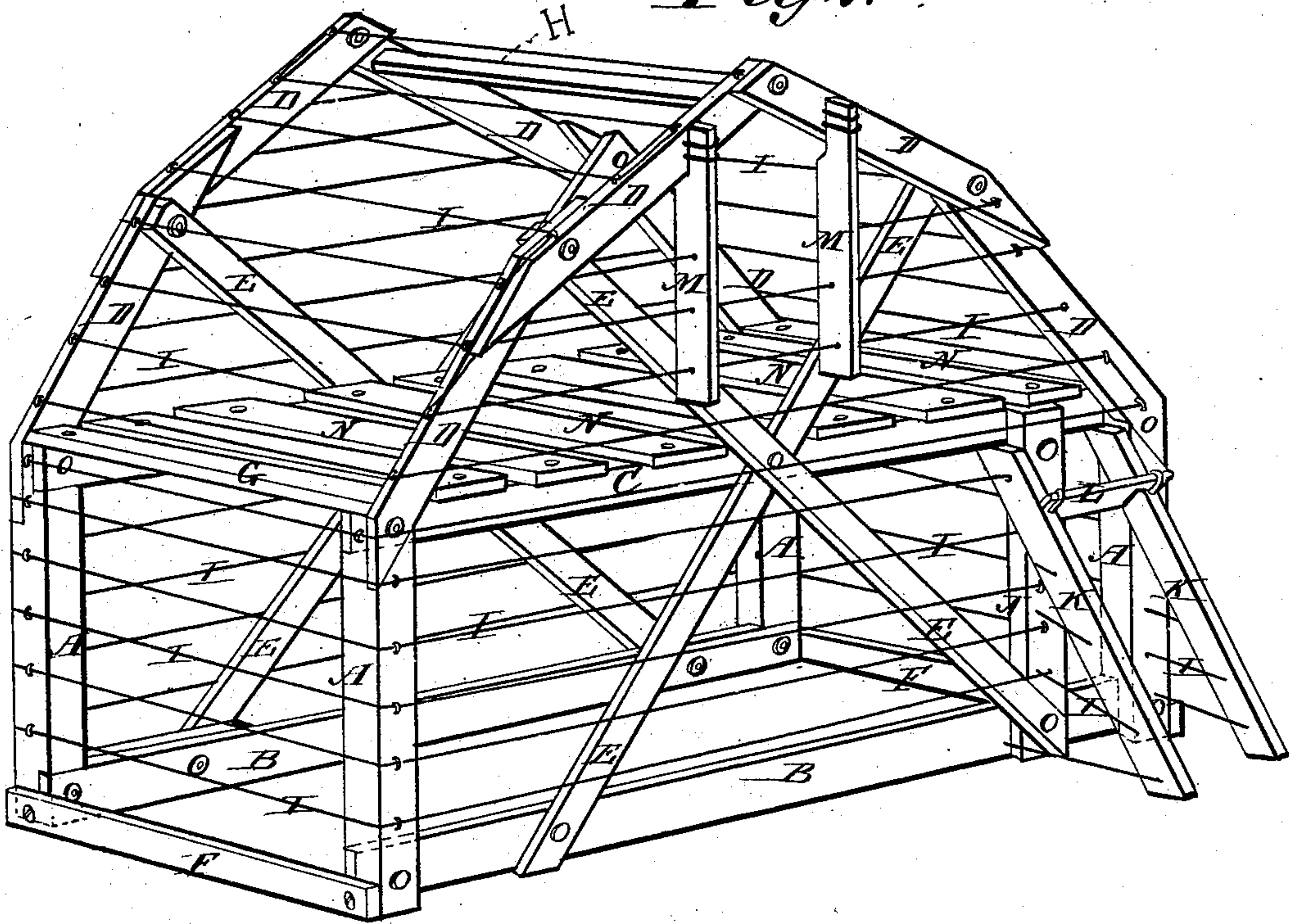
W. H. OLDER.

Construction of Buildings.

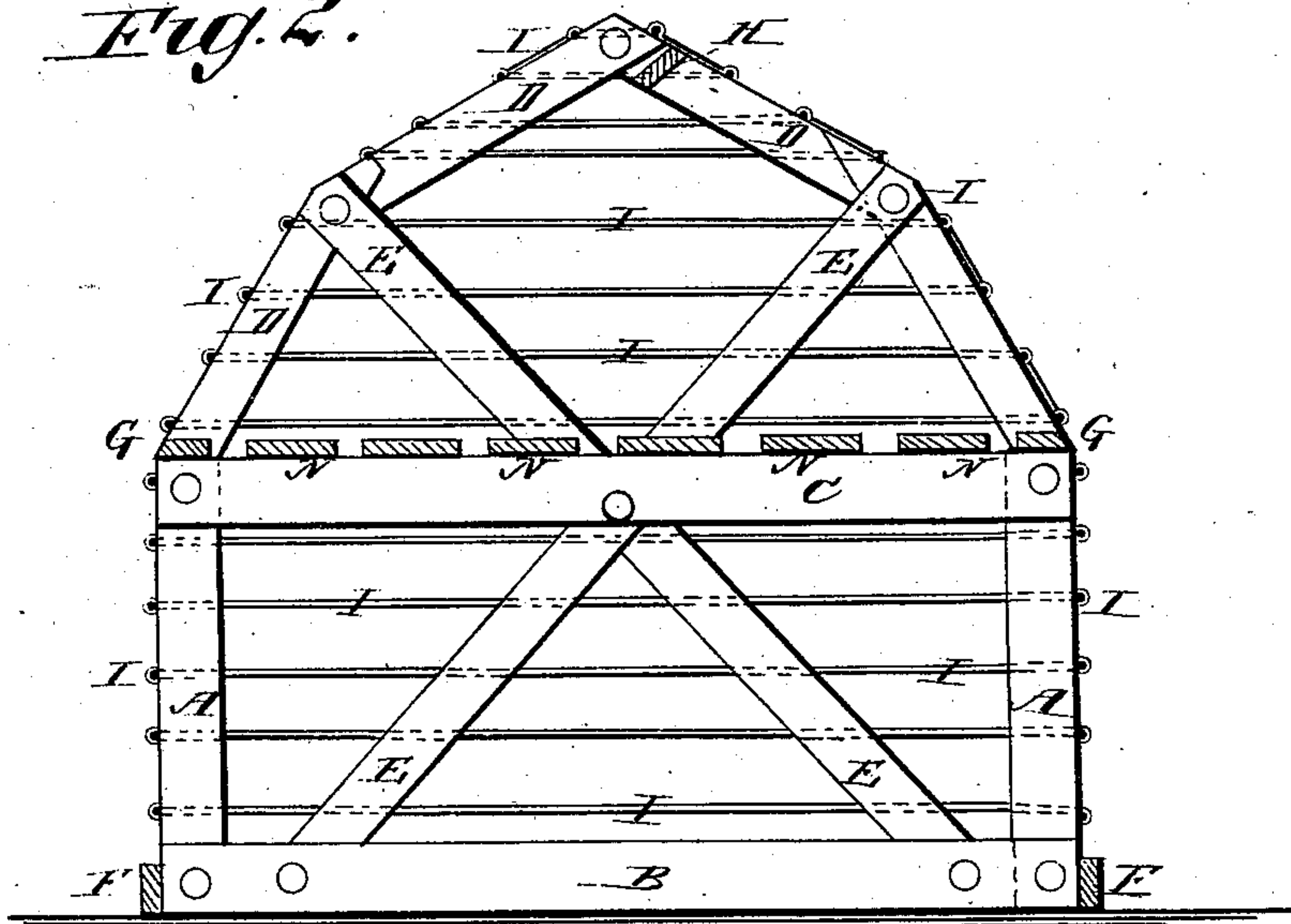
No. 236,072.

Patented Dec. 28, 1880.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*Francis McArdle.*  
*C. Sedgwick*

INVENTOR:

*W. H. Older*  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. OLDER, OF PACKWAUKEE, WISCONSIN.

## CONSTRUCTION OF BUILDINGS.

SPECIFICATION forming part of Letters Patent No. 236,072, dated December 28, 1880.

Application filed November 8, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. OLDER, of Packwaukee, Marquette county, Wisconsin, have invented a new and useful Improvement in the Construction of Buildings, of which the following is a specification.

Figure 1 is a perspective view of the improvement, and Fig. 2 is a sectional end elevation.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improvement in the construction of buildings designed especially for barns upon prairie-farms and in other sections of country where timber is scarce.

A are two posts, to the lower ends of which are framed the ends of a sill, B. To the upper ends of the posts A are framed the ends of a beam, C. The two posts A, the sill B, and the beam C form a bent, and two, three, or more bents can be used in the building and at any desired distance apart. To the upper end of each post A is framed the lower end of a rafter, D, the rafters of each bent meeting over the central line of the building. Each rafter D can be made in one or two pieces; but I prefer to make it in two pieces, with the upper piece at a less inclination than the lower one, to prevent the roof from rising too high and allow it to be more easily covered. The bents and rafters are strengthened by inclined braces E, crossing each other in the form of a letter X, and bolted to the sills B, the beams C, and the rafters D, as shown in Figs. 1 and 2. The bents are connected at the lower ends of the posts A by girts F, attached to the outer sides of the said posts, and at the upper ends of the posts A by girts G, attached to the tops of the said posts. The upper parts of the rafters D of adjacent bents are connected by girts H, attached to the said rafters. The connection between the bents is further strengthened by bars or planks N, spiked, bolted, or nailed to the beams C of adjacent bents.

I are wires passing across the sides of the building from post to post, along the ends of the building from post to post and from rafter

to rafter, and along the roof of the building from rafter to rafter, as shown in Figs. 1 and 2. The wires I are secured in place by staples, by nails, or by being passed through the timbers, as may be desired or most convenient. The wires I can be placed at any desired distance apart.

In one side or end of the building is formed a doorway by attaching an upright, J, to the sill B and beam C, parallel with and at a suitable distance from a post, A, and by attaching the upper ends of two parallel inclined bars, K, to the said upright J and post A. The upper rails of the inclined bars K may be connected by a cross-bar, L. The inclined bars K are connected with the upright J and the post A by wires I, as shown in Fig. 1, to protect the doorway from the straw or other material covering the building.

An upper doorway can also be formed by attaching the upper ends of two parallel upright bars, M, to and supporting them from the upper parts of the end rafters, D, and securing the said upright bars in place by the wires I, the parts of the wires I being cut away between the upper parts of the said upright bars M.

The outer side and the roof of the building can be thatched with straw, tarred paper, or other convenient material; or straw may be stacked or banked around the building upon its roof. The various parts of the frame are secured in place by bolts.

By this construction a cheap and serviceable building can be formed with very little timber and at very little cost.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a building, the frame-work constructed substantially as herein shown and described, consisting of the bents A B C, the rafters D, the braces E, the connecting-girts F G H, and the wires I, as set forth.

2. In a building, the combination, with the posts A of the bents, and the rafters D, of the inclosing-wires I, substantially as herein shown and described, to receive the thatching or covering, as set forth.

3. In a building, the combination, with the  
post A, sill B, and beam C of a bent, and the  
wires I, of the upright J and the inclined  
bars K, substantially as herein shown and de-  
5 scribed, to form a doorway protected from the  
covering of the building, as set forth.

4. In a building, the combination, with the  
rafters D and the inclosing-wires I, of the sus-

ended uprights M, substantially as herein  
shown and described, to form an upper door- 10  
way, as set forth.

WILLIAM H. OLDER.

Witnesses:

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DIANA NEALE.