

F. Dorsett, Sheet 1-2 Sheets.

Grain Ventilator,

No 68,291,

Patented Aug. 27, 1867.

Fig. 1.

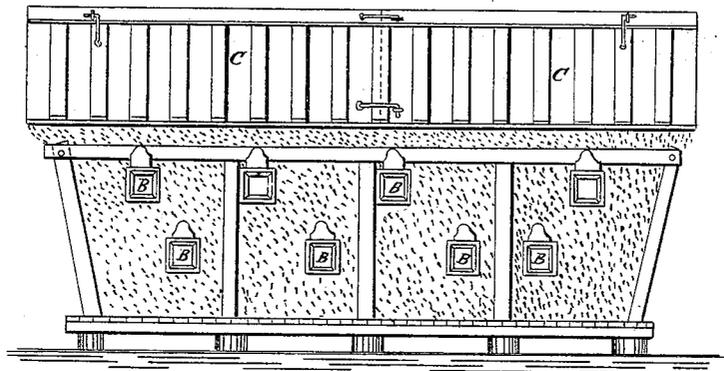
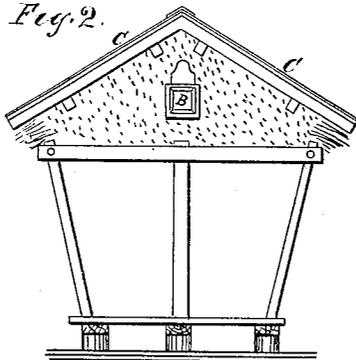


Fig. 2.



Witnesses
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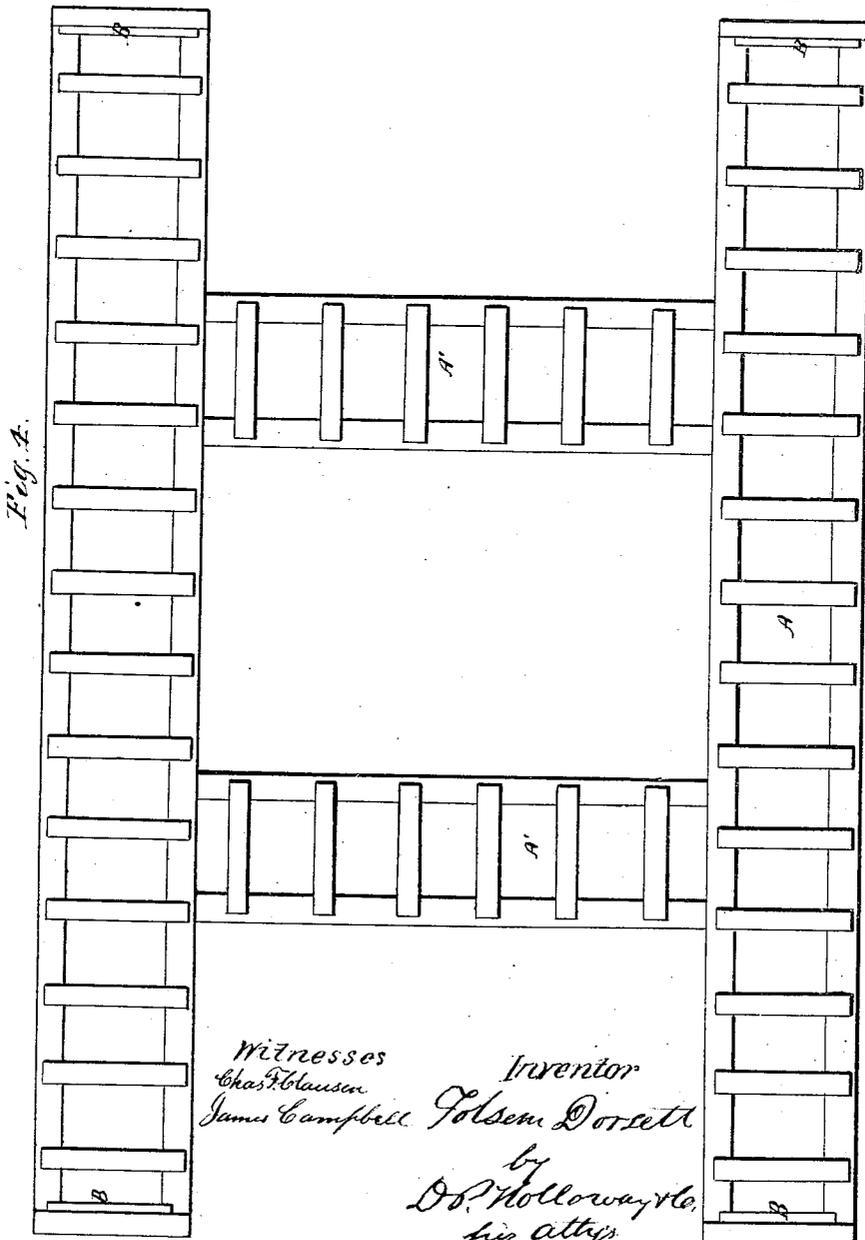
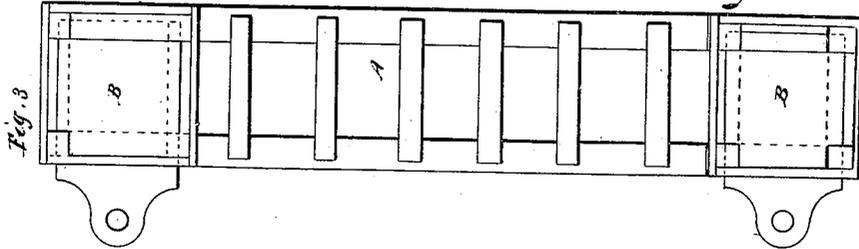
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F. Dorsett, Sheet 2 - 2 Sheets.

Grain Ventilator.

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United States Patent Office.

FOLSOM DORSETT, OF CHICAGO, ILLINOIS.

Letters Patent No. 68,291, dated August 27, 1867.

IMPROVEMENT IN CURING AND PRESERVING GRAIN.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, FOLSOM DORSETT, of Chicago, in the county of Cook, and State of Illinois, have invented a new and useful Improvement in the Mode of Preserving Grain or Hay in the stack or mow, or corn in the crib, bin, or rick; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a side elevation of a stack of grain.

Figure 2 is an end elevation of the same.

Figure 3 is a side elevation of one of the ventilators; and

Figure 4 is a plan of the same.

The same letters are employed in all the figures in the indication of identical parts.

My invention consists in the introduction of a system of ventilating-frames into the body of the stack or heap, and in the mode of constructing the roof for covering the same, said ventilators being so constructed that by means of doors or slides the admission of air may be regulated according to circumstances.

In preparing for the stack, I build a foundation of timbers so that the hay or grain may be elevated above the ground, so as not to absorb the moisture from the same. I also construct the roof C in sections, which may be readily removed from place to place and attached to one another as required to form a roof for a stack of any size. These sections when placed for a roof are lapped so as to exclude the rain, and fastened by hooks and staples. Having provided in the construction of the bottom timbers for a free circulation of air below the stack, I lay the hay, grain, or other material upon the flooring to the depth of say from two to five feet, according to its condition. I then place upon the material a system of ventilating-frames, B B, composed of lattice-work, so as to procure a thorough ventilation to all parts of the stack. I then lay on more of the hay or grain and introduce other series of ventilating-frames in like manner, according to the size and height of the stack and condition of the hay or grain until the stack is completed. The sides may be enclosed with a frame of timbers, if preferred. When the stack is thus completed I put on the sectional roof as described. The ventilating-frames B are timber frames of convenient shape and suitable length, formed by longitudinal pieces at the angles, united by cross-pieces, forming an open-latticed work through which the air may at all parts circulate freely. These frames when in use project beyond the surface of the stack, to give free play to the sliding doors D. They may be arranged all horizontally, cross-sections uniting, if desired, the frames passing through the stack, or the sections may be placed vertically leading from the frame which lies horizontal through the stack. The ends of the ventilating-tubes are closed by sliding or other doors, B, by means of which the admission and circulation of air may be regulated according to circumstances. Thus, in very wet weather, I would close all the doors in dry weather those at one or both ends may be opened; in moderately wet weather I would close the doors on the windward side, leaving them open on the other side.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A system of ventilating-frames, A A', used in stacks of hay, grain, &c., said frames being adjustably closed by doors B, and arranged to operate substantially as set forth.
2. The combination of such a system of adjustable ventilating-frames and an adjustable sectional roof in stacks, &c., of hay, grain, &c., substantially as set forth.

FOLSOM DORSETT.

Witnesses:

C. M. HAWLEY,
J. H. TRUMBULL.