

E. M. BUECHELE.
VENTILATING MEANS FOR CORN CRIBS.
APPLICATION FILED JULY 22, 1918.

1,306,401.

Patented June 10, 1919.

Fig. 1.

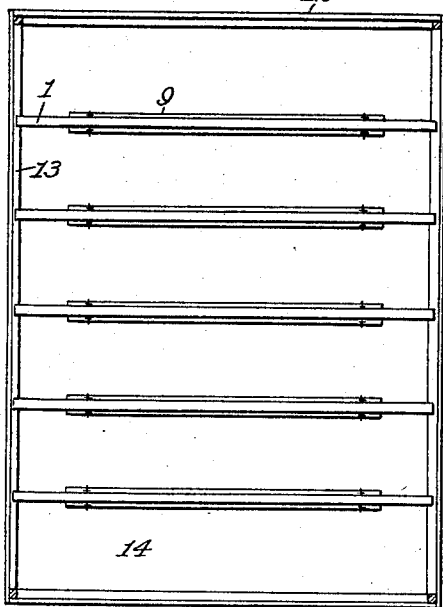


Fig. 2.

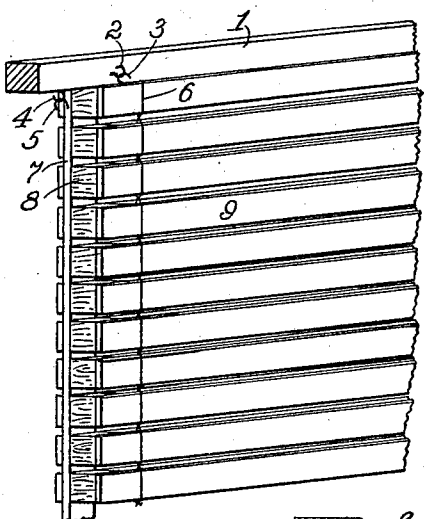
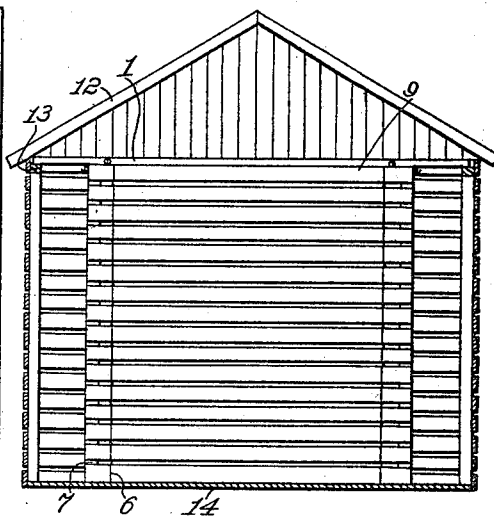


Fig. 4. Fig. 5.

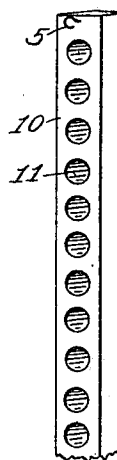
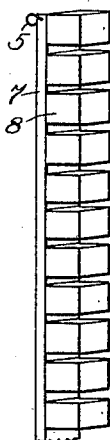


Fig. 3.

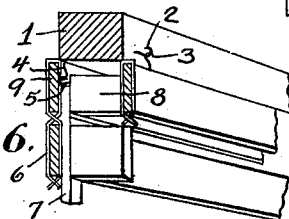


Fig. 6.

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VENTILATING MEANS FOR CORN-CRIBS.

1,306,401.

Specification of Letters Patent.

Patented June 10, 1919.

Application filed July 22, 1918. Serial No. 246,031.

To all whom it may concern:

Be it known that I, ELI M. BUECHELE, a citizen of the United States of America, and a resident of Blackhawk county, Iowa, have invented certain new and useful Improvements in Ventilating Means for Corn-Cribs, of which the following is a specification.

My invention relates to ventilating devices, and particularly to contrivances for aerating ear corn in corn-cribs, and the object of my improvement is to supply easily assembled and removable means for effecting proper aerating of the corn in a crib or inclosure, by stationing pairs of division-devices in the inclosure in such a manner as to furnish air-passages extending through the mass of the corn to convey air-currents thereinto and therethrough to thoroughly and evenly dry out the ears.

This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which Figure 1 is a horizontal section of a corn-crib, showing my improved ventilating means installed therein, and Fig. 2 is a vertical transverse section of the corn-crib, showing said means in elevation therein. Fig. 3 is an enlarged perspective detail view, showing the assembled parts and supports of a pair of the foldable division-devices. Figs. 4 and 5 are detail perspective views of portions of end-spacing means for said division-devices, being different forms of the same. Fig. 6 is a detail perspective view, partially in section, of some of the slats and the associated parts of the device.

In said drawings, similar numerals of reference denote corresponding parts throughout the several views.

The numeral 12 denotes a corn-crib of a well-known type of construction, having a floor 14, corner uprights supporting longitudinal beams 13, and roofed as shown, the building having the usual creviced walls.

My improved ventilating means comprises cross-beams 1 positioned across the interior of said building, parallel, and with their ends resting on the opposite longitudinal beams 13 just under said roof. These beams 1 serve as supports for the plurality of ventilating division-devices, the latter being suspended under said beams in the same planes, as shown in said Figs. 1 and 2 to depend to the floor 14.

Each of said division-devices comprises a

pair of like bodies or hangers, each made up of a plurality of horizontal spaced parallel strips 9, linked together near each end by twisted wires or cords 6, so as to be foldable or so as to be rolled up when taken down. These division-devices are provided with hooks 3 engaging other hooks 2 on the opposite sides of the beam 1 over and between their upper ends, whereby said devices are suspended in spaced relation from the beam. I employ spacing-means for holding said pairs of division-devices in spaced relation so as to not be pressed together yieldingly by the weight of corn deposited on either side thereof. The spacing-means consists of a vertical plank 7 having blocks 8 fastened on one side in vertical spaced relation, there being as many blocks as slats or strips 9, so that when the plank 7 is positioned with its back against the inner faces of the ends of the strips 9 on the same side, the blocks 8 will contact with the opposite strips in the other division-device of the pair.

A hook 5 on the upper end of the plank 7 is detachably engaged with a hook 4 on the under side of the beam 1, whereby said plank is suspended, and serves to space the two division devices apart preventing collapsing.

Because of the vertical spacing of the blocks 8 and of the horizontal strips 9, air-currents may enter the interspace of each pair of said division-devices without hindrance, whence it is distributed among the interstices of ears of corn filling the spaces between the several pairs of said devices, and insuring adequate ventilation of the corn with quick and even drying thereof. While I have shown in Figs. 1 and 2 the division-devices of less width than the interior width of the crib 12, yet they may be made longer to entirely traverse the crib, but when arranged as shown, the relatively thin deposit of corn between their ends and the crib walls will not prevent passage of air-currents to said devices for distribution thence through the mass of the corn.

In Fig. 5 is shown a modified form of the spacing-body 10, which has a plurality of small orifices 11 traversing it horizontally to permit the passage of air therethrough, the body or beam 10 serving alone as spacing means for the pair of division-devices between which it is placed, and being suspended in the manner above described.

It is to be understood that my device may be considerably varied without departing

from the scope of the invention. For instance each division-device may be of rigid instead of foldable or collapsible construction, and made of wire-meshed fabric, or other intersticed materials, and the division-devices may be otherwise supported, it being the intent of my invention to provide passages extending into and through the mass of corn, to evenly distribute the air-currents and thus properly dry out the corn.

These division devices are inexpensive to construct, are easily set up and as easily removed.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. In ventilating means of the character described, supporting-means, flexible division-devices supported detachably in spaced pairs on said supporting-means, and spacing-bodies mounted detachably between the members of said pairs and both the division-devices and the spacing-bodies provided with a plurality of openings.

2. In ventilating means of the character described, supporting-means, flexible division-devices supported detachably in spaced

pairs on said supporting-means, and separated spacing blocks supported detachably on said supporting-means for spacing the members of each pair of division-devices from each other.

3. In ventilating means of the character described, an elevated cross-beam, a pair of like division-devices detachably suspended on opposite sides thereof in spaced relation, each device being formed of a plurality of spaced horizontal slats connected flexibly together, and spacing-means closing the ends of the interspace of said devices and detachably suspended from said cross-beam, each spacing-means having a plurality of orifices leading into said interspace.

4. In ventilating means of the character described, an elevated supporting beam, a pair of flexible division devices suspended therefrom and each formed of a plurality of spaced slats, means for lacing the slats together, and spacing-means suspended from said beam between said devices.

Signed at Waterloo, Iowa, this 5th day of July, 1918.

ELI M. BUECHELE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."