

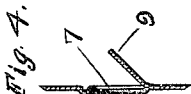
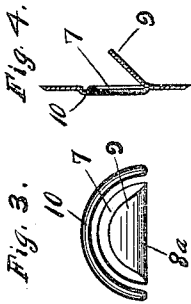
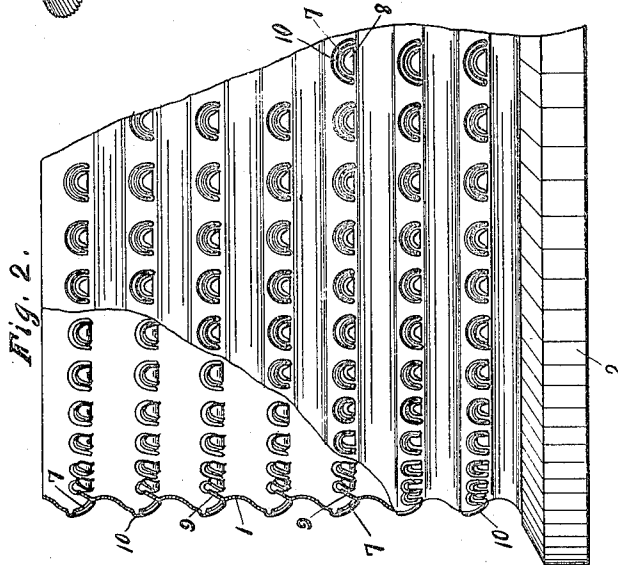
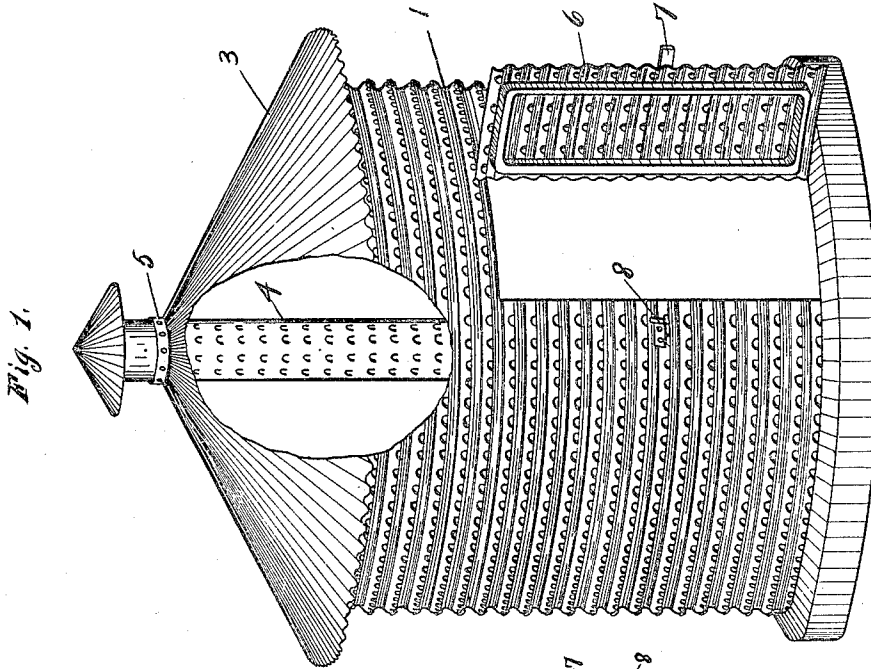
C. M. ROWLAND.

CORN GRIB.

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957,381.

Patented May 10, 1910.



Witnesses

John L. Young,
Paul C. Herman

Inventor
Charles M. Rowland

By

John L. Boss
his Attorney

UNITED STATES PATENT OFFICE.

CHARLES M. ROWLAND, OF MANSFIELD, OHIO.

CORN-CRIB.

957,381.

Specification of Letters Patent.

Patented May 10, 1910.

Application filed March 17, 1910. Serial No. 550,050.

To all whom it may concern:

Be it known that I, CHARLES M. ROWLAND, a citizen of the United States of America, residing at Mansfield, in the county of Rich-
land and State of Ohio, have invented certain new and useful Improvements in Corn-Cribs, of which the following is a specification.

My invention relates to corn cribs constructed of corrugated sheet iron.

It is well known that on account of rodents and birds that a corn crib constructed of sheet metal can be used to much greater advantage and makes a more durable store house for the corn and practically prevents rodents and birds from entering the crib and destroying, polluting or mutilating the corn. In constructing the corn crib of flat sheet metal and forming a large number of apertures or openings in the body, the solidity and durability is sacrificed and opportunity is afforded to permit rain, snow or other debris in case of hard winds to enter the crib.

The object of my invention therefore is to construct a crib of corrugated sheet metal and means of providing a series of ventilating openings directly underneath the horizontal center of the convex portion of each corrugation forming the body; said openings being made by pressing a series of lips from the sheets forming the body inwardly and at an incline therewith leaving full and ample openings for ventilating purposes but at the same time almost entirely closing the openings when viewed from a horizontal plane, the opening for ventilation beginning on the inside of the body and inclining outwardly and downwardly.

Another object of my invention is to form a rib or bead surrounding or adjacent to the openings to counteract to a large extent the weakness of the crib caused by forming the ventilating apertures in the body of the crib and to conduct foreign substances from the openings.

My invention is illustrated in the accompanying drawing in which:—

Figure 1 is a plan view of my crib showing a part broken away to show the ventilator and general arrangement of the corrugated sheets forming the body and the lipped ventilating openings. Fig. 2 is an enlarged view of part of the body showing lipped ventilating openings and enlarged

sectional view of part of the body taken through the center of a vertical row or series of the lipped ventilating openings. Fig. 3 is an enlarged detail front view of one of the lipped ventilating openings with the corrugation removed to more clearly show the construction of the lipped ventilating openings. Fig. 4 is a side view of Fig. 3.

In the drawings 1 represents the body of the corn crib which, as shown, is made of a series of corrugated sheet metal sections and 2 the base upon which it is mounted in any well known manner. The roof 3 is made cone-shape and constructed of sections of corrugated iron and is secured to the top of the body leaving the large part of the cone extending beyond the body 2 (see Fig. 1). A ventilator shaft 4 is secured to the base 2 or floor in the center of the chamber of the crib and one end extends through the apex of the cone-shaped roof and is fastened by a strap 5. A door 6 and latch 7' and 8 is provided as shown. It will thus be observed that the crib is made of sections of corrugated iron giving it the strength, durability and rigidity of structure made of material other than sheet iron.

The proper ventilation of the corn crib without losing other advantages of sheet iron cribs is an essential and important one and the primary object of my invention is to provide proper ventilation without affecting the advantages obtained by the use of sheet iron in the construction of corn cribs. The means that I have invented to ventilate the crib is as follows: Beneath the horizontal center of the convex portion of each corrugation I press or punch from the sections forming the body an opening 7 preferably semi-circular from the sections making up the body of the crib, roof and ventilator leaving the lower portion 8^a of the lips 9 integral with the corrugated sections making up the body. The lips 9 are pressed inwardly at an incline to the plane of the crib and the openings formed by pressing the lips 9 from the corrugated sections are also at an incline to the body of the crib which construction or arrangement provides full and complete opening for ventilating purposes but does not present an opening at right angles to the plane of the crib thereby preventing rain, snow and other debris from entering the crib. A reinforcing bead or rib 10 is formed adjacent to and surrounds the openings 7

adding strength to the structure and affording means to conduct the rain etc. away from the openings 7.

I am aware that sheet metal corn cribs have been made prior to this application and do claim it broadly.

My invention consists in the use of the novel ventilating openings in connection with the use of corrugated sheet iron.

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

1. A corn crib made of sections of corrugated sheet iron with ventilating openings 15 provided directly underneath the horizontal center of each convex portion of the corrugation.

2. A corn crib made of sections of corrugated sheet iron with ventilating openings 20 provided directly underneath the horizontal center of each convex portion of the corrugation and lips pressed therefrom.

3. A corn crib made of sections of corrugated sheet iron with ventilating openings 25 provided directly underneath the horizontal center of each convex portion of the corrugation and lips pressed therefrom extending at an incline to the plane of the crib.

4. A corn crib made of sections of corru-

gated sheet iron with ventilating openings 30 provided directly underneath the horizontal center of each convex portion of the corrugation and lips pressed therefrom extending at an incline to the plane of the crib, a reinforcing bead or rib surrounding the open- 35 ings adapted to strengthen the crib and conduct the foreign substances from the openings.

5. A corn crib made of sections of corrugated sheet iron with ventilating openings 40 provided directly underneath the horizontal center of each convex portion of the corrugation, said openings being arranged at an incline to the body.

6. A corn crib made of sections of corrugated sheet iron with ventilating openings 45 provided directly underneath the horizontal center of each convex portion of the corrugation, said openings having lips extending inwardly into the chamber of the crib and a 50 ventilator secured to the center of the chamber of the crib as described and set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES M. ROWLAND.

Witnesses:

JOHN H. COSS,

PEARL ACKERMAN.