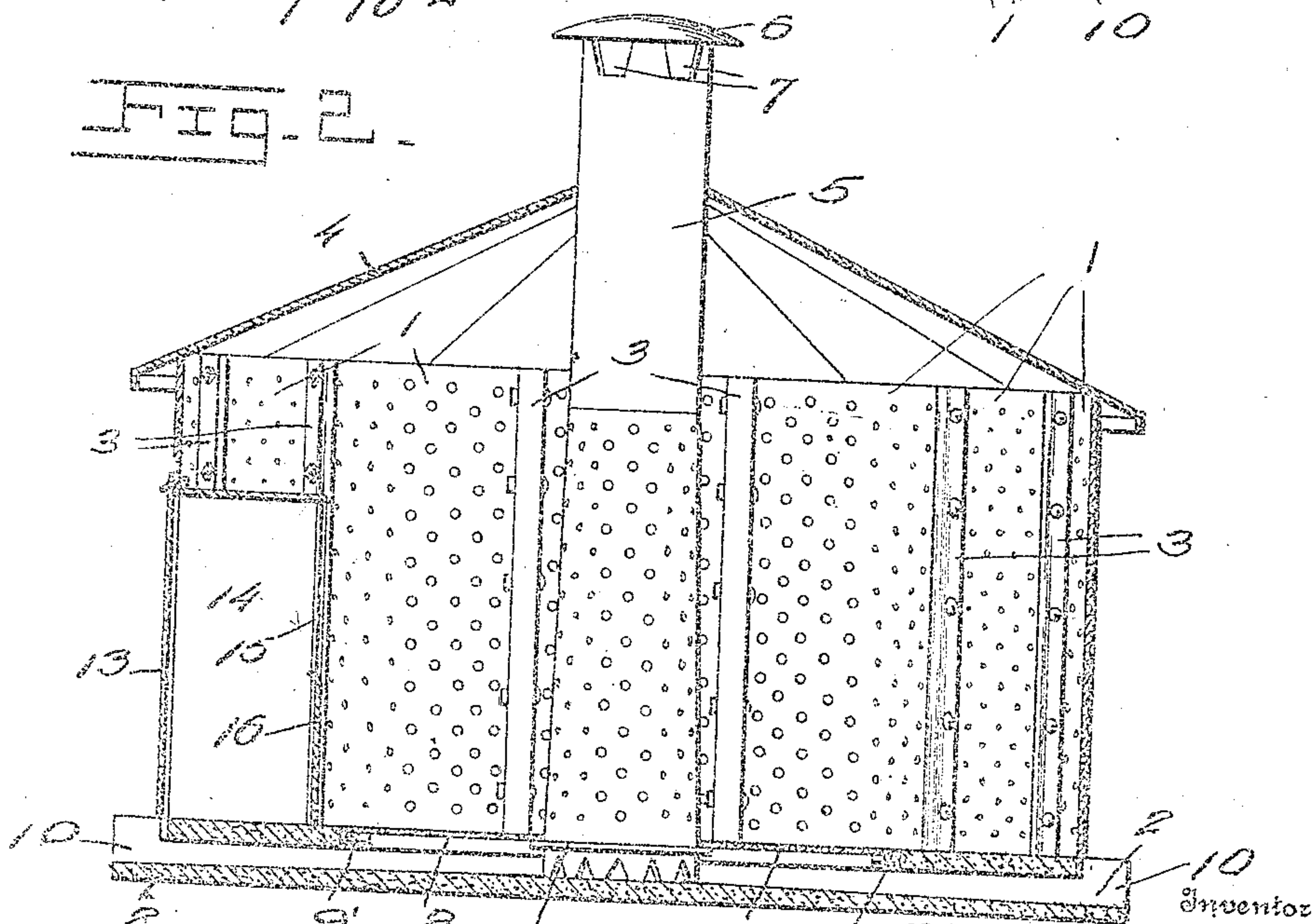
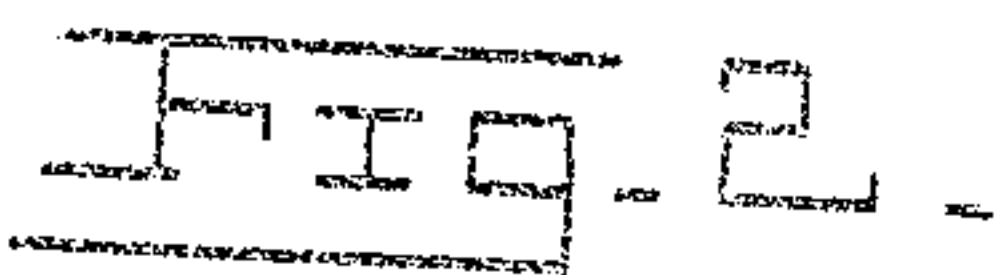


CORN CRIB.

Patented Mar. 1, 1910.
2 SHEETS—SHEET 1.

2 SHEETS--SHEET 1.



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CORN CRIB.

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950,902.

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2 SHEETS—SHEET 2.

FIG. 4.

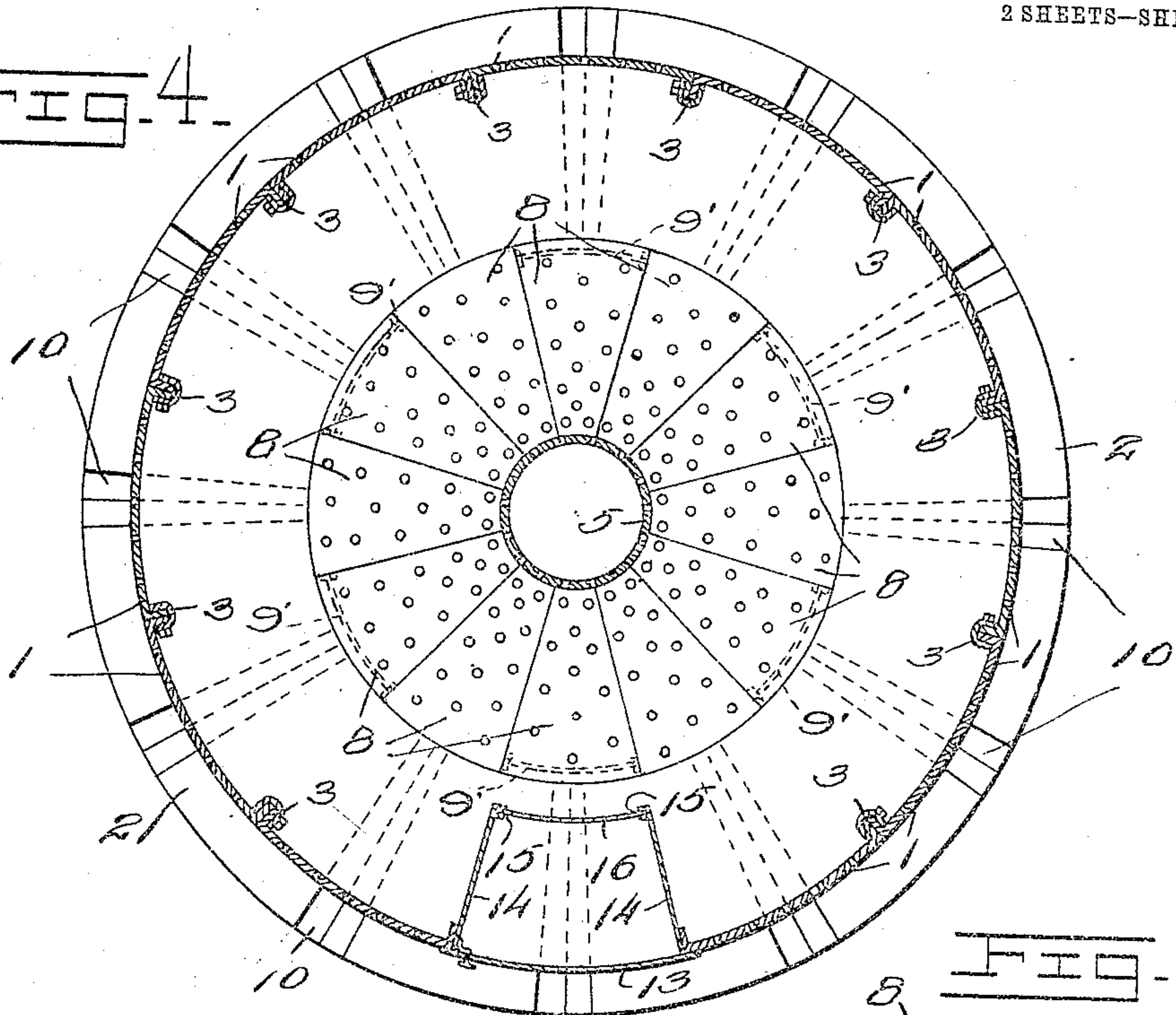
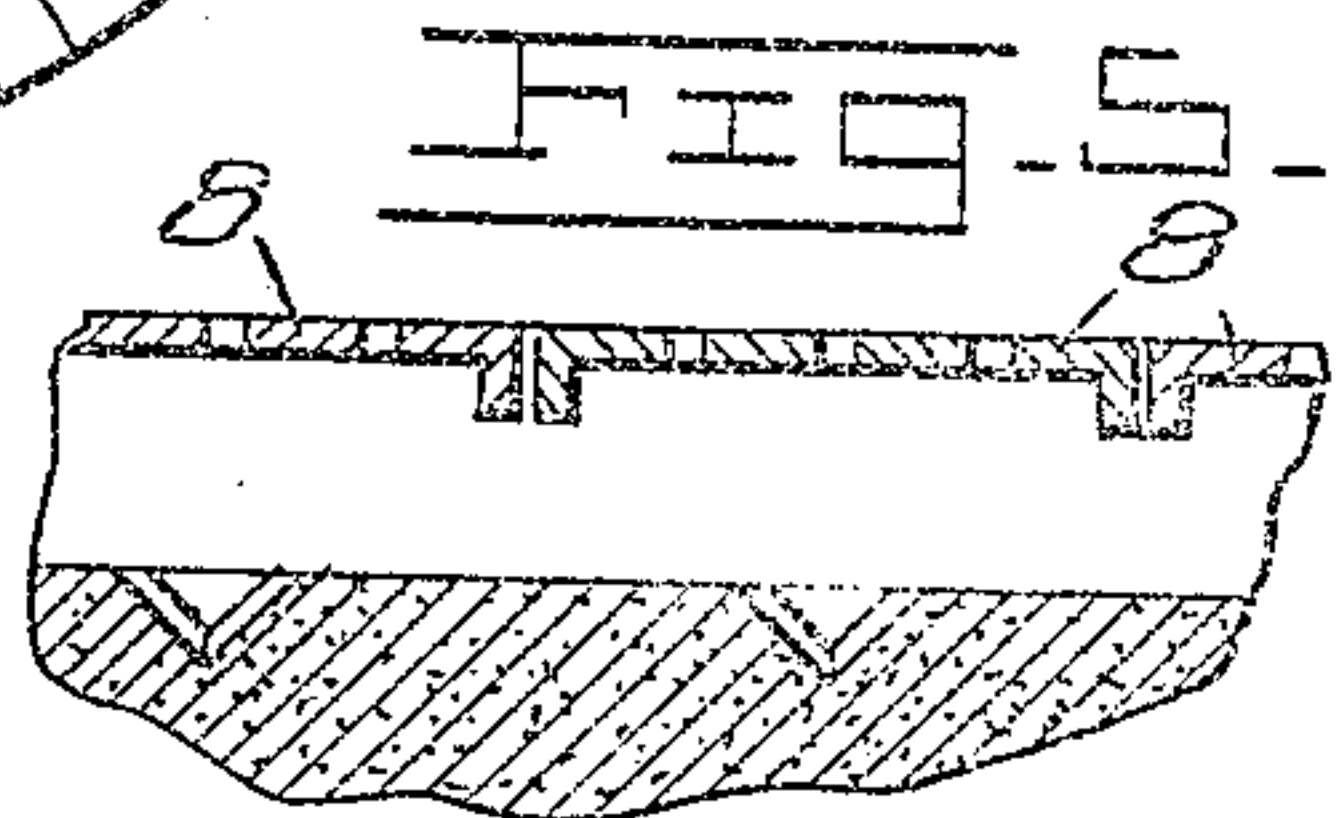
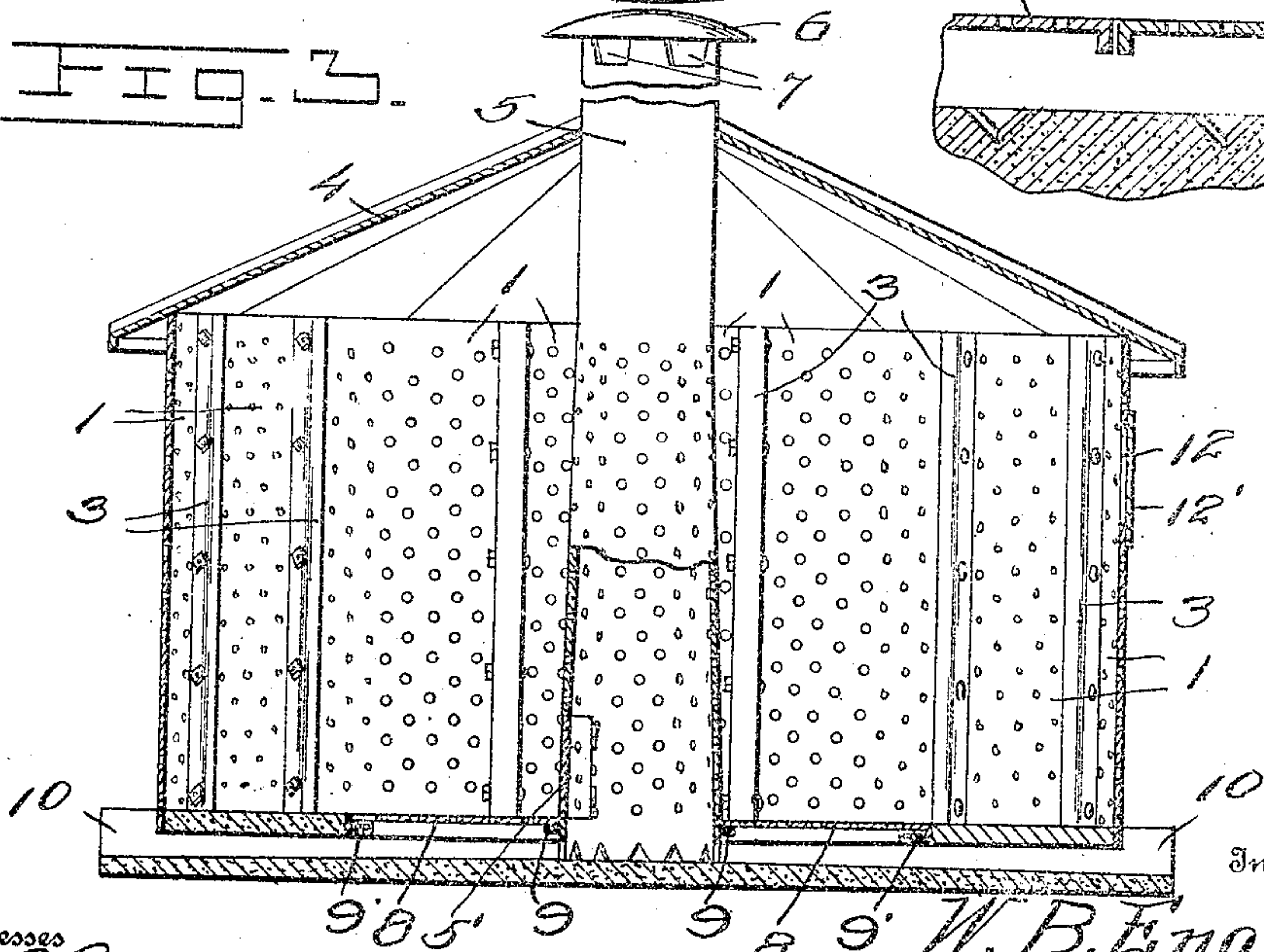


FIG. 3.



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CORN-CRIB.

950,902.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM B. ENGEL, a citizen of the United States, residing at Medina, in the county of Medina and State of Ohio, have invented certain new and useful Improvements in Corn-Cribs, of which the following is a specification.

This invention relates to new and useful improvements in corn cribs and has for its object to provide a crib which is so constructed that the interior thereof is thoroughly ventilated, thus preserving the corn or other grain stored therein.

Another object is to provide such a device which is entirely constructed of concrete and sheet metal, no timber whatsoever being employed in its construction.

Another object is to provide a crib, the bottom of which is constructed of concrete, a metallic sectional floor being superposed upon the same, to provide an air space between the said metallic sections and the concrete bottom.

A further object is to provide new and novel means for admitting the air to the interior of the crib, while at the same time corn or other grain stored therein will be preserved from the depredation of mice, rats or other rodents.

Other objects and advantages will be apparent from the following description, and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of my improved corn crib, Fig. 2 is a central vertical section therethrough, the air tube being shown in elevation, Fig. 3 is a similar view taken at right angles to Fig. 2 the lower portion of the air tube being shown in section, Fig. 4 is a horizontal section taken on the line 4-4 of Fig. 1. Fig. 5 is a vertical sectional detail intermediately of the center and periphery of the crib.

Referring to the drawings, 1 indicates the foraminated metallic plates which are circularly arranged to provide the cylindrical walls of the crib. These plates may be of any convenient size, the same being governed by the desired capacity of the completed crib. The lower ends of these plates are

embedded in the concrete bottom 2, and have their meeting ends secured in the vertically extending plates 3 which are located inwardly of the casing, so that the same are entirely hidden from view. The ends of these plates are also embedded in the bottom 2, and upon the upper ends thereof the conical roof 4 is disposed. The periphery of the roof 4 is disposed in approximate vertical alignment with the edge of the bottom 2, and has extending through the center thereof, the air tube 5, the lower end of which is somewhat enlarged and is embedded in the concrete bottom 2. The lower enlarged portion of the tube 5 is suitably perforated, so that the air may flow freely therethrough from the interior of the crib. A cleaning opening 5' is also provided in the lower end of the tube, by means of which access may be had to the interior thereof, so that the dirt or other deposits collected therein may be removed to allow for the free passage of the air currents.

The upper end of the tube 5 has secured thereto, a suitable cowl 6, and immediately below the same a plurality of openings 7 are provided in the tube 5. The air currents impinge upon the under surface of the cowl 6 and are guided through the openings 7, from whence they will finally escape from the lower perforated end of the tube 5.

Suitably spaced from the upper surface of the concrete bottom 2, a plurality of foraminated plates 8 are provided, the outer ends of certain of said plates being securely embedded in the concrete of the bottom 2. The inner ends of the plates 8 are disposed upon the flange 9 secured to the periphery of the air tube 5. These plates extend radially from the center of the concrete base, and are substantially triangular in form. Two or more of the plates 8 are hinged upon the pintles 9', the ends of which are embedded in the concrete base. Thus it will be seen that the hinged plates may be swung upward when it is desired to remove the dirt or other refuse which may have collected in the space between the sectional metallic bottom and the base 2.

V-shaped air troughs 10 are formed in the concrete base which extend upwardly from the outer edge thereof, and communicate with the space between the metallic floor and the base. As these troughs gradually slope from the interior of the crib to the outer edge of the base thereof, the entrance

of rain water to the same will thus be effectually prevented so that the corn or other grain contained therein will always be kept in a dry condition and be prevented from rotting. A suitable opening 12 is provided near the top of the crib so that the corn may be rapidly unloaded from the transporting vehicle and stored therein. This opening may be securely closed by means of the hinged door 12' when the same is not being used. An entrance door 13 is also provided which leads to the interior of the crib so that access may be easily had thereto to distribute the corn evenly upon the floor of the same. Side plates 14 extend inwardly from either side of this door and have suitable grooves or guideways 15 formed in their inner edges, in which is mounted a sliding plate 16. This plate 16 is of such a size that when forced upward to the extent of its sliding movement, entrance may be easily had to the interior of the crib beneath the same. When it is desired to remove corn from the crib, this plate will also act to retard the flow of the grain to the door 13, should the crib be entirely filled with the same.

From the foregoing it will be seen that I have provided a corn crib wherein the use of wood or timber is entirely eliminated, thus obviating the danger of the destruction of the same from fire. The contents of the bin are also entirely protected from the depredations of mice or rats, while at the same time air will be freely admitted thereto, thus keeping the grain housed therein in a marketable state.

My improved crib is moreover simple and inexpensive in its construction, the grain may be easily placed within the same, and as quickly exhausted therefrom, and when once erected will prove to be of great durability, as the heavy concrete base thereof will allow it to withstand the heaviest wind-storm, whereby the danger of the crib being blown down is avoided.

What is claimed is:

1. A structure of the character described comprising a concrete base, a sectional metallic wall secured in said base, the meeting edges of said sections being secured in ver-

tical plates, said plates being substantially U-shaped in cross section, a sectional foraminated floor disposed upon said base and spaced therefrom, air ducts formed in said base and communicating with the space between the same and said metallic floor, a conical roof having its outer edge disposed upon said wall, and an air tube extending centrally through said roof and secured in said base, the lower portion of said tube being perforated.

2. A structure of the character described comprising a plastic base, a metallic wall secured in said base having a filling opening and an entrance opening, inwardly extending plates upon either side of said entrance opening having grooves formed in their inner edges, a plate slidably mounted in said grooves, a foraminated sectional floor disposed upon said base and spaced therefrom, certain of said sections being hinged upon pintles secured in said base, a roof having its outer edge disposed upon said wall, a ventilating tube extending centrally therethrough and secured in said base, and a flange carried by the lower end of said tube and supporting said floor sections.

3. A structure of the character described, comprising a plastic base, a foraminated metallic wall secured in said base, a sectional floor disposed upon said base, and spaced therefrom, certain of said sections being hingedly mounted upon pintles secured to said base, a roof having its outer edge disposed upon said wall, an air tube extending centrally therethrough provided with perforations in the lower end thereof, a flange carried upon the lower end of said tube and adapted to support the inner ends of said floor sections, a cleaning opening being formed in the lower end of said tube and air ports in its upper end, and means secured upon the upper end of said tube for guiding the air currents therefrom.

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

WILLIAM B. ENGEL.

Witnesses:

G. W. SMITH,
G. F. HIGH.