

No. 848,110.

PATENTED MAR. 26, 1907.

W. H. LIMBERG.

SILO.

APPLICATION FILED OCT. 26, 1906.

Fig. 3.

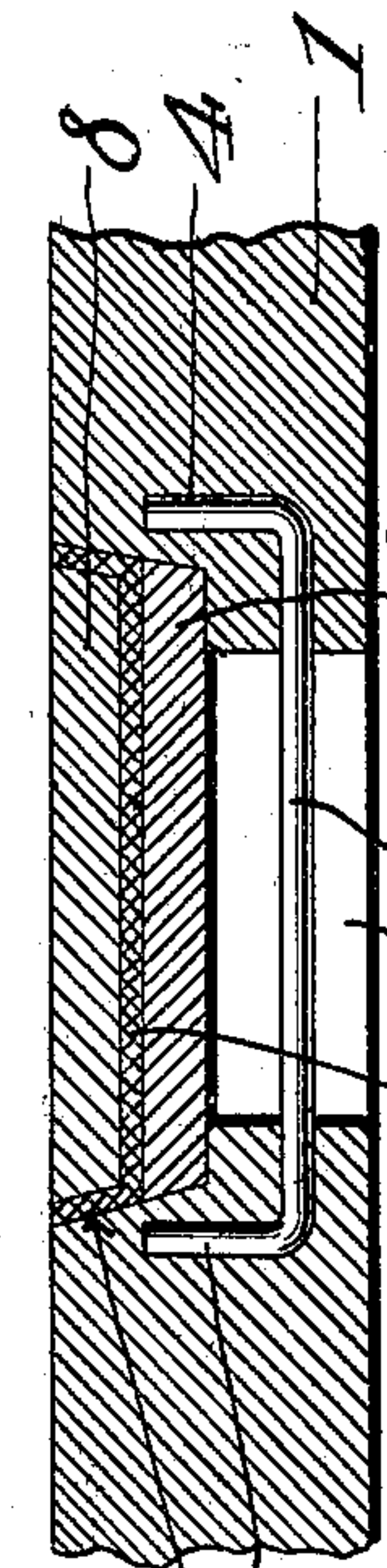
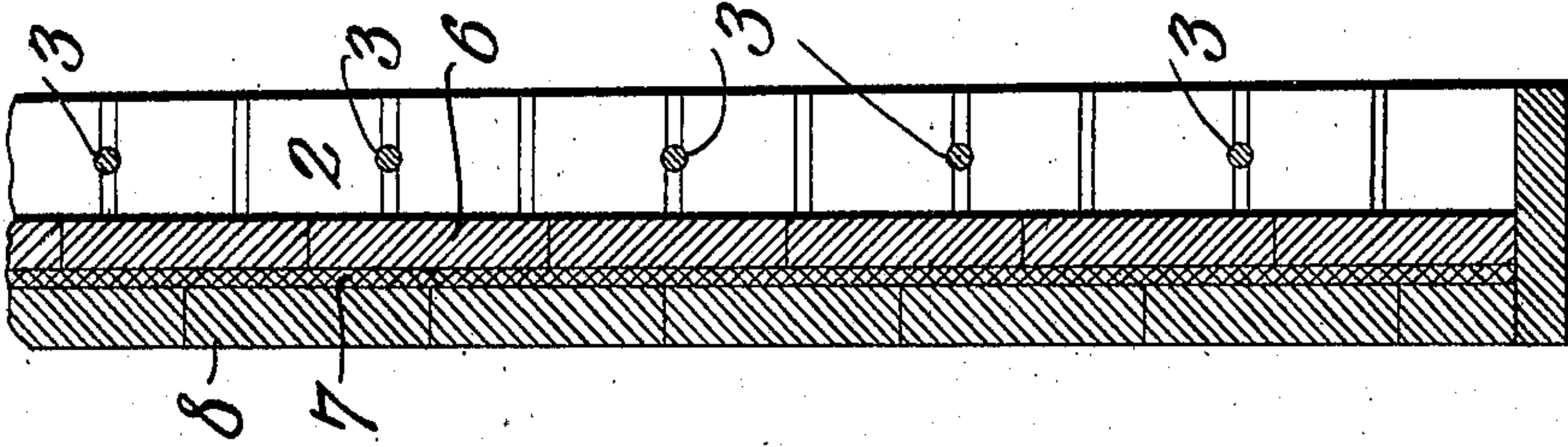


Fig. 2.

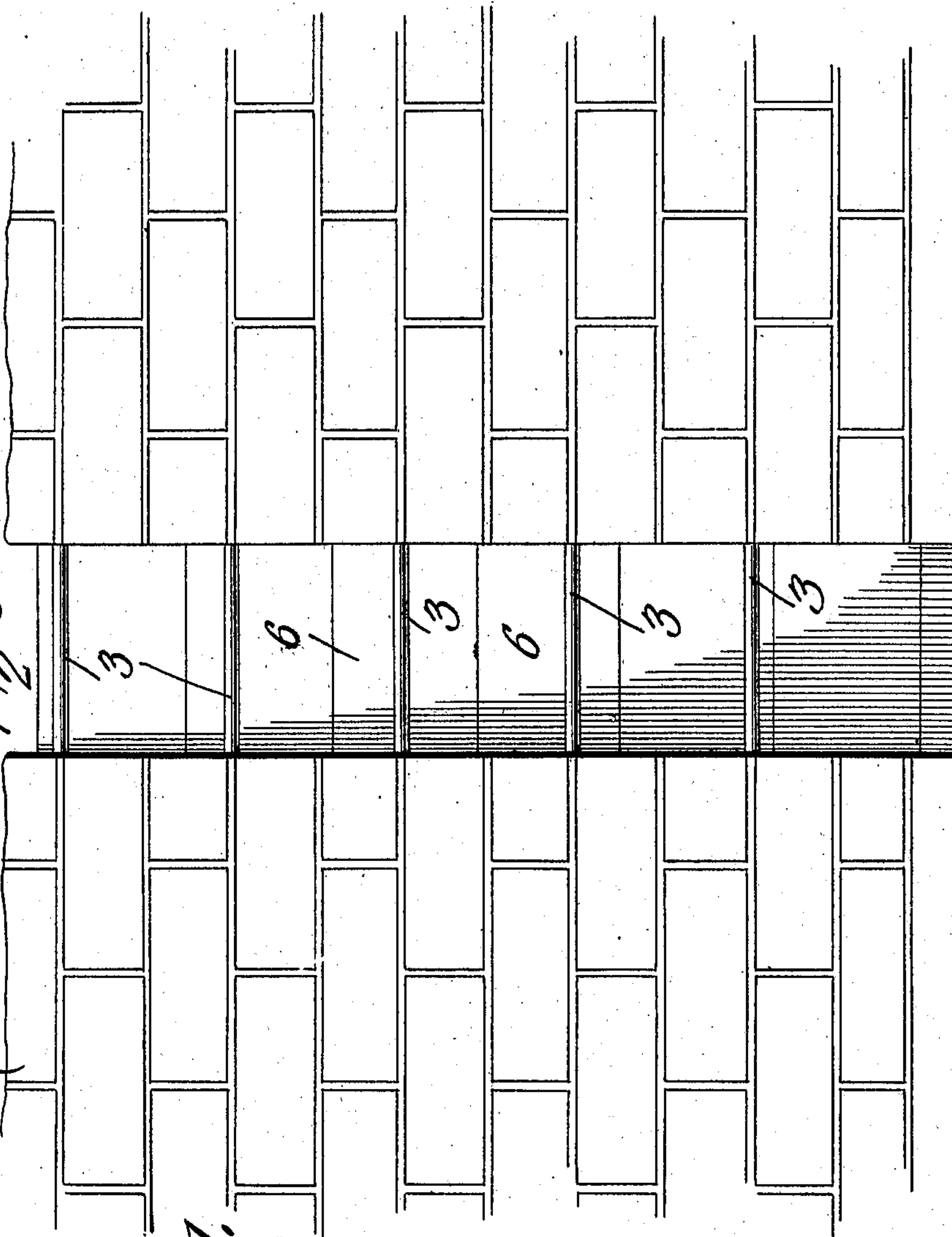


Fig. 1.

WITNESSES:

E. J. Stewart
Hubert D. Lewson

William H. Limberg,
INVENTOR.

By *C. A. Snow & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM H. LIMBERG, OF PLYMOUTH, WISCONSIN.

SILO.

No. 848,110.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed October 26, 1906. Serial No. 340,765.

To all whom it may concern:

Be it known that I, WILLIAM H. LIMBERG, a citizen of the United States, residing at Plymouth, in the county of Sheboygan and State of Wisconsin, have invented a new and useful Silo, of which the following is a specification.

This invention relates to silos, and more particularly to doors therefor; and its object is to provide a simple form of door which obviates the use of door-casings in silos made of cement, brick, &c.

A still further object is to provide novel means for bracing the walls of the door, said bracing means constituting a ladder.

Another object is to provide a sectional door adapted to be forced into the door-opening and to bind therein, so as to render the door practically air-tight.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts, which will be hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings, Figure 1 is an elevation of a portion of a silo having a door therein constructed in accordance with the present invention. Fig. 2 is a horizontal section through a portion of the silo and the door, and Fig. 3 is a vertical section through the door.

Referring to the figures by characters of reference, 1 is a silo made of brick, cement, or any other suitable material and having an elongated door-opening 2 extending vertically therein, the walls of said opening being tied together by cross-rods 3, the ends 4 of which extend at right angles thereto and are embedded within the walls, so as to hold them at proper relation with each other at all times, said rods also constituting a ladder. A recess 5 is formed longitudinally within each wall of the door-opening, said recess being of gradually-increasing depth from its inner to its outer end. These recesses constitute seats for door-sections 6, the ends of which are beveled, so that said sections can be tightly wedged into the recesses 5 and across the door-opening 2. Moisture-excluding material 7 is arranged upon the sections 6 and upon the walls of the recesses 5, and another layer of door-sections 8, having beveled ends, is forced onto this insulating material, so as to be wedged firmly within the door-opening.

By forming a silo-door in the manner herein described the parts can be tightly wedged in place and held by frictional contact and after once being placed in position will prevent the admission of air, &c. The door is of very simple construction and can be very easily set up or removed. This form of door is particularly adapted for silos made of masonry, although it is of course understood that the same may be used in connection with any form of silo.

The preferred form of the invention has been set forth in the foregoing description; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of the claims.

What is claimed is—

1. The combination with a silo having a door-opening; of an outer series of transversely-extending door-sections arranged within the opening, an inner series of transversely-extending door-sections within the opening, each section of the inner series being parallel with and lapping two of the sections of the outer series, the sections of both series being wedged between the walls of the opening.

2. The combination with a silo having a door-opening therein, and recesses extending longitudinally within the walls of the door-opening, said recesses increasing in width toward the interior of the silo; of an outer series of transversely-extending door-sections arranged within the door-opening, an inner series of transversely-extending door-sections extending across the door-opening, each section of the inner series being parallel with and lapping two of the sections of the outer series, the ends of both series of sections being beveled and adapted to wedge within the recesses, and moisture-excluding material disposed between the sections of the two series and between the ends of said sections and the walls of the door-opening.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM H. LIMBERG.

Witnesses:

R. H. KOEHLER,
O. A. SCHEIBE.