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ROOF STRUCTURE FOR SILOS AND THE LIKE.

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1,147,207. **Patented July 20, 1915.**

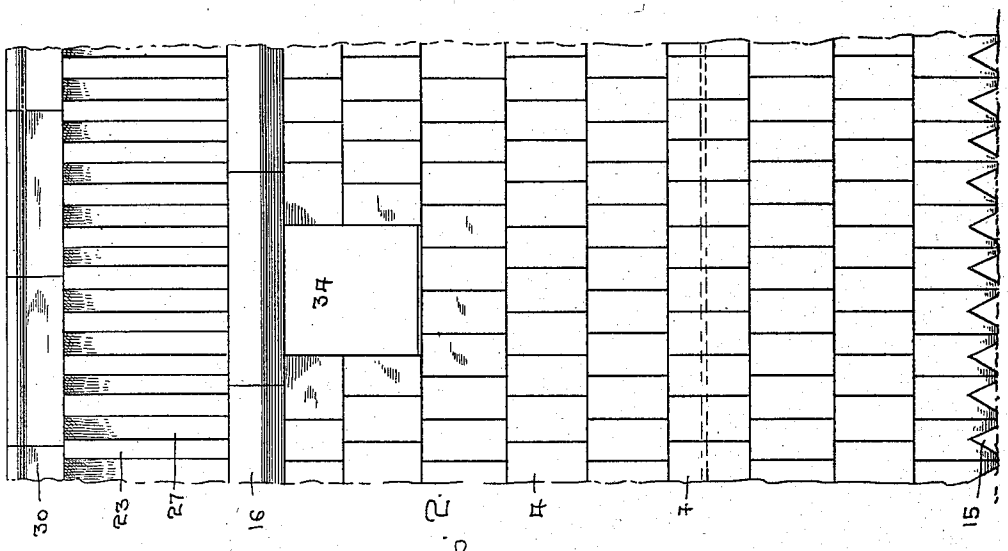


Fig. 1.

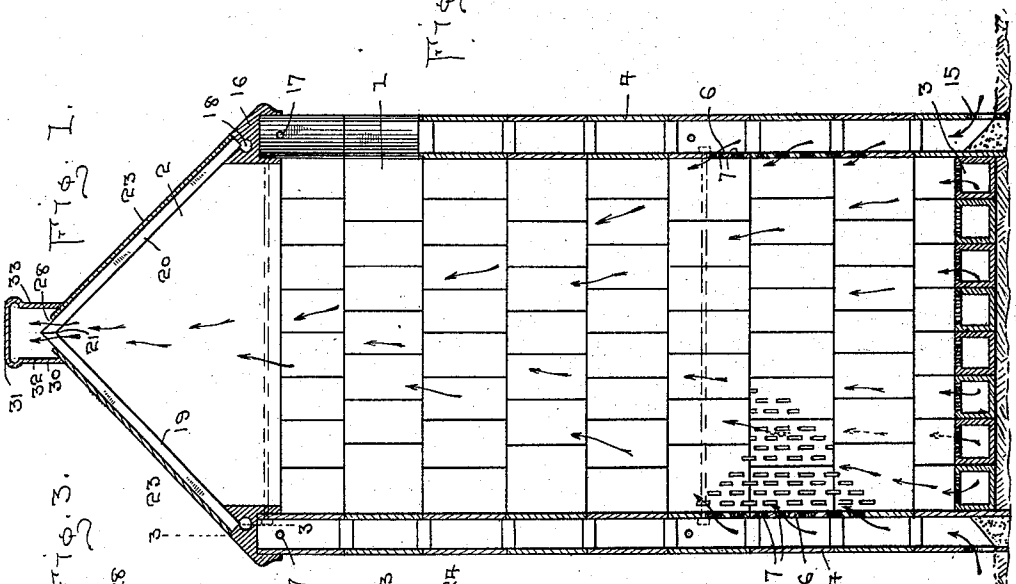


Fig. 2.

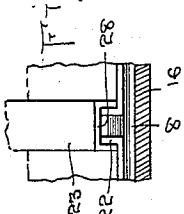


Fig. 3.

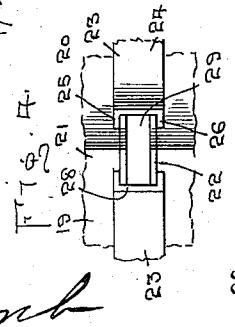


Fig. 4.

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ROOF STRUCTURE FOR SILOS AND THE LIKE.

1,147,207. Specification of Letters Patent. Patented July 20, 1915.

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To all whom it may concern:

Be it known that I, OLIVER BRUMBAUGH, a citizen of the United States, residing at Louisville, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Roof Structures for Silos and the like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to roof structures for silos, and the like.

The object of my invention is to so construct my building that I will have a compact, neat and strong device that will give perfect ventilation to all parts of the same.

A preferred embodiment of my invention is shown in the drawings, and similar characters of reference refer to similar parts throughout the drawings, in which,

Figure 1, is a sectional elevation of my device in completed form. Fig. 2, is an exterior elevation of a section of my device. Fig. 3 is a section taken on the plane of the line 3—3 of Fig. 1. Fig. 4 is a plan view of the joint between the roof members at the ridge, the ridge member being omitted.

In Fig. 1 of the drawings, 1 represents the walls of my device, 2 the roof, and 3 the flooring, said walls and flooring being constructed of hollow tile 4, as shown.

Upon the top edges of my walls I attach a cornice or roof support 16, said cornice being fastened by means of bolts or other suitable fastening devices through bolt perforations 17 in the top layer of hollow tile, or by other suitable fastening means, and said cornice having a longitudinally running inner gutter or drain 18 as shown in cross section in Fig. 1 of the drawings.

Running up from my cornice are my roof members 19 and 20, said roof members meeting at the top edges as at 21. Each of my roof sections 19 and 20 are built up from slabs having upturned flanges 22, which are keyed together and reinforced thereby by means of channel seam caps 23, these caps having a top portion 24 and flange sections 25 and 26, as plainly apparent from Fig. 4 of the drawings. This forms a perfect key for my roof sections and yet at the same time allows of the run way for rain water to travel theredown between said keys as at 27 in Fig. 2 of the drawings, said water being carried off through the gutters 18 previously mentioned, which run longitudinally through the cornice 16.

My caps 23 are short of the ridge pole of the roof as at 28 in Figs. 1 and 4 of the drawings so that a vent aperture 29 is had at intervals in the top section of the roof thereby allowing the air to pass out from the crib. A ridge member 30 covers the top edge of my roof sections, and these vents, as a protection against inclement weather, said member 30 comprising the crown piece 31 and side members 32 and 33, this member 30 being open at its opposite ends as a vent for the air from said crib or silo.

If desired, suitable windows 34 can be left in the walls of the crib or silo directly beneath the cornice 16.

Having described the preferred embodiment of my invention and only being desirous of being limited by the scope of the claim appended hereto, what I claim as new is:—

A roof structure consisting of a plurality of roof sections having upturned flanges, adjacent sections being spaced apart, channel seam caps bridging the spaces between adjacent sections and lapping the upstanding flanges thereof, said seam caps extending from the eaves to a point short of the ridge line, a ridge member covering the spaces between the ends of the seam caps, said ridge member being open at its ends whereby air is permitted to pass between the spaced adjacent roof sections, the ends of the seam caps and the open ends of the ridge member.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OLIVER BRUMBAUGH.

Witnesses:
J. L. COY,
CLARA A. COY.

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