V. I. MOSER.

COAL CHUTE.

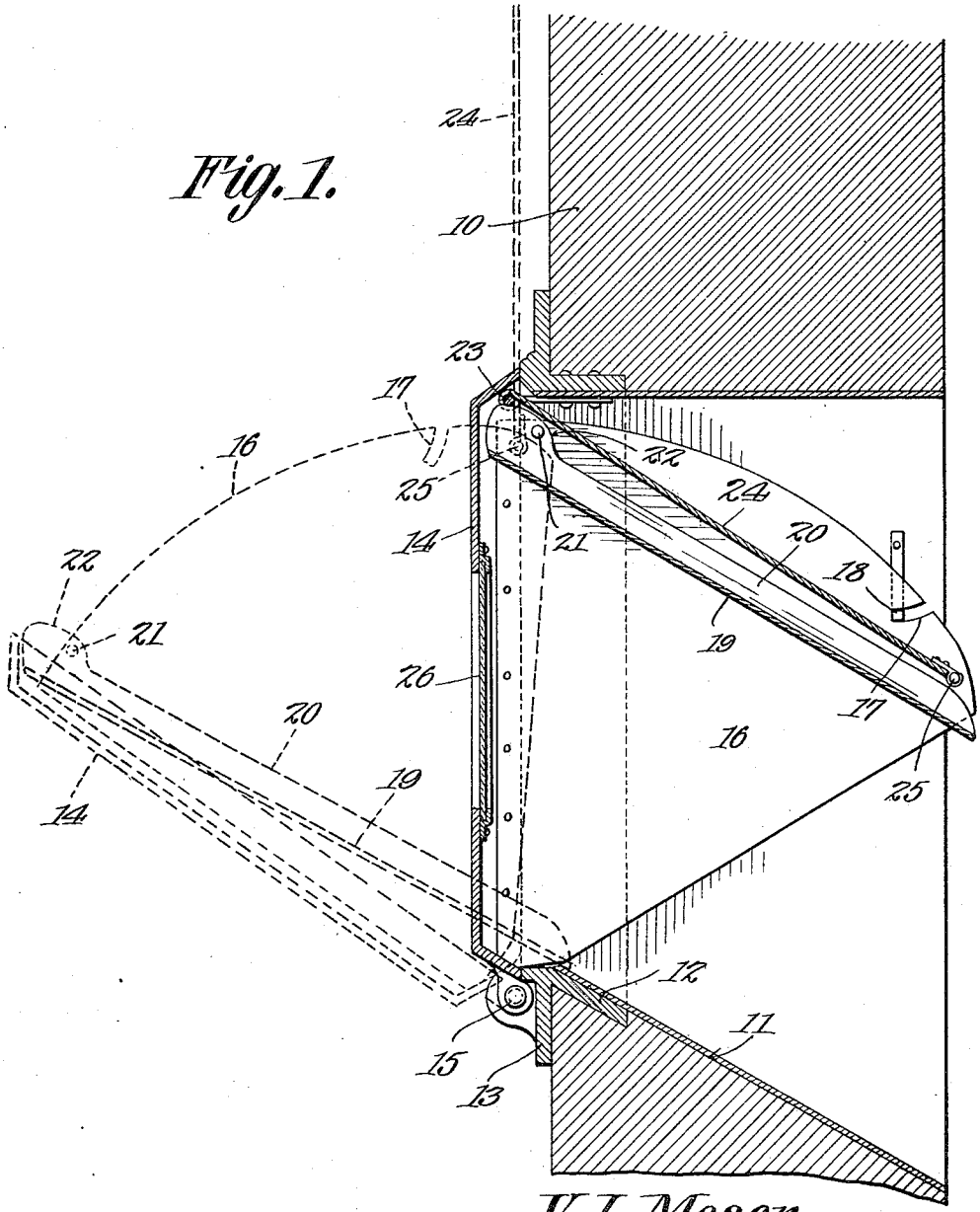
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1,124,502.

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2 SHEETS—SHEET 1.

Fig. 1.



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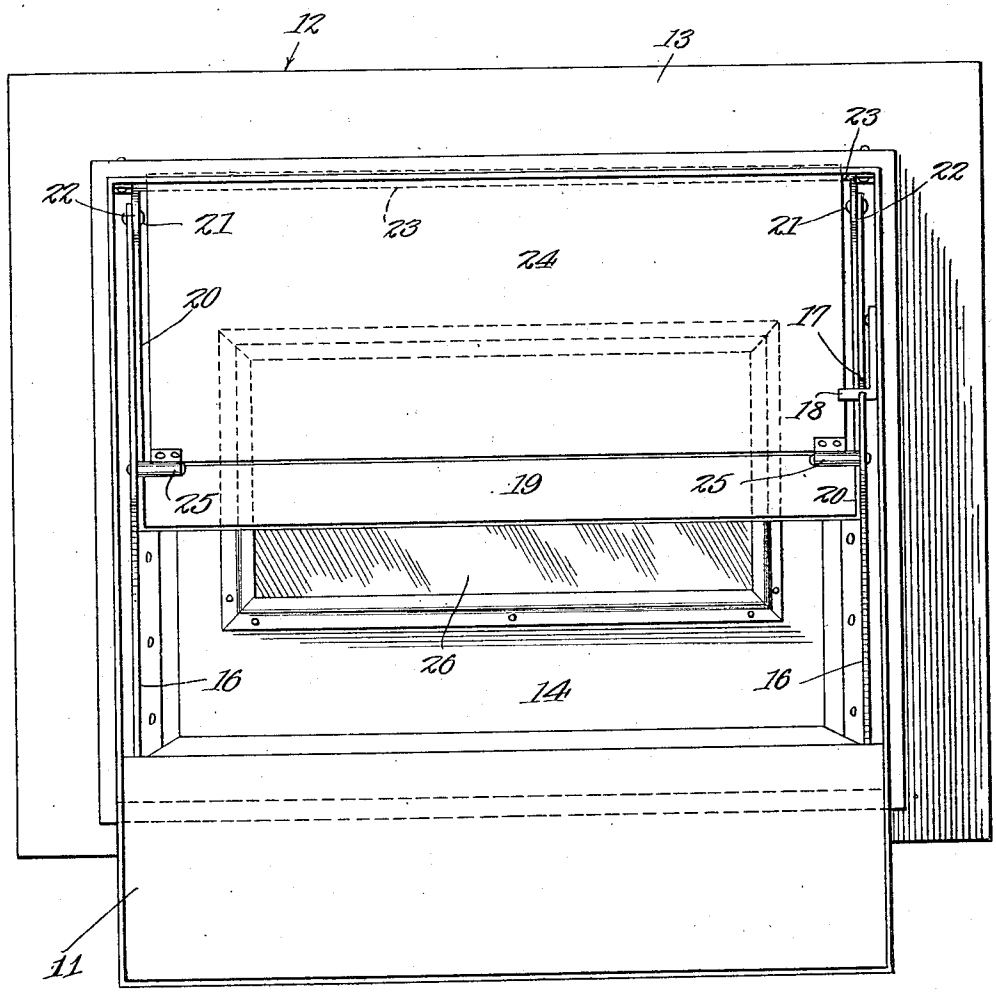


Fig. 2.

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UNITED STATES PATENT OFFICE.

VERN I. MOSER, OF WICHITA, KANSAS, ASSIGNOR TO THE WESTERN IRON & FOUNDRY CO. INCORPORATED, OF WICHITA, KANSAS.

COAL-CHUTE.

1,124,502. Specification of Letters Patent. Patented Jan. 12, 1915.

Application filed May 9, 1914. Serial No. 837,480.

To all whom it may concern:

Be it known that I, VERN I. MOSER, a citizen of the United States, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Coal-Chutes, of which the following is a specification.

This invention relates to chutes designed to facilitate the delivery of coal and other material to the cellar or vault of a building, and its object is to provide a novel and improved structure of this kind, together with a closure having means whereby it is protected against injury when it is swung open, and also having means for protecting the wall of the building. This object is attained by means of a novel combination and arrangement of parts to be hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a central vertical section of the chute, and Fig. 2 is an elevation thereof from the inside.

Referring specifically to the drawings, 10 denotes the wall of a building in which is made an opening in which a chute 11 is mounted. The bottom wall of the chute has a downward slope inward. In the outer end of the opening is mounted a metal frame 12 having a marginal flange 13 which fits against the outer surface of the wall 10. The frame supports a door 14 for closing the chute, said door being hinged at 15 to the flange 13 at the bottom of the frame 12. The door has side wings 16 which pass through the frame 12 and enter the chute 11 when the door is closed. When the door is open, the wings 16 serve as the side wall continuations of the chute. In the top edge of one of the wings 16 is a notch 17 into which, when the door is shut, swings a latch 18 pivoted to the adjacent side wall of the chute 11, whereby the door is locked. The latch is accessible only from the inside, and the door therefore cannot be unlatched from the outside of the building. When the door is swung closed, the edge of the wing strikes the latch, and when the latter comes opposite the notch, it drops automatically thereinto to lock the door.

The door 14 carries a guard plate 19 which is located between the wings 16. The plate 19 has upstanding side flanges 20 which are pivotally connected, as indicated at 21, to the top of the door. The pivoted ends of the flanges 20 are enlarged, as indicated at 22, for a purpose to be presently described.

The top portion of the frame 12, inside the door 14, and adjacent to the free edge thereof, carries a cross rail 23 on which latter rests and is slidable the free outer end of a guard plate 24, which is located between the wings 16 and pivoted at its inner end to the corresponding ends of said wings, as indicated at 25. When the door is swung open, the guard plate 24 rides upward over the cross rail and swings out of the chute 11, and when the door is wide open, the guard plate extends perpendicularly in front of the wall 10, above the chute to protect said wall from injury, and also to prevent the door from dropping down too far. When the door is closed, the guard plate 24 is drawn downward back into the upper part of the chute.

The door 14 has a glass pane 26 which is protected by the plate 19, said plate covering the inner face of the door when it is swung open. The rail 23 serves as an abutment which is in the path of the enlarged portions 22 of the side flanges 20 of the plate 19, and when said parts 22 strike the abutment, the plate 19 is swung upward to elevated position so as not to obstruct or cover the pane 26. When the plate 19 is down it extends into the chute 11 across the hinge joint of the door.

I claim:

1. The combination of a door frame, a door hinged to said frame, a plate pivoted to the inside of the door to cover the inner face thereof when it is swung open, and means in the door frame for swinging the plate outward from the inner face of the door when said door is closed.

2. The combination of a door frame, a door hinged to said frame, a plate pivoted to the inside of the door to cover the inner face thereof when it is swung open, and an abutment in the path of the pivoted end of the plate, and engageable thereby when the door is closed, for swinging said plate outward from the inner face of the door.

3. The combination of a door frame, a door hinged to said frame, a plate pivoted to the inside of the door to cover the inner face thereof when it is swung open, said plate having upstanding side flanges, and an abutment in the path of the flanges at the pivoted end of the plate, and engageable

thereby when the door is closed, for swinging said plate outward from the inner face of the door.

4. The combination of a door frame, a door hinged to said frame, a plate pivoted to the inside of the door to cover the inner face thereof when it is swung open, and means for automatically swinging the plate outward from the inner face of the door when said door is closed.

5. The combination of a door frame, a door hinged to said frame, side wings on the door, a guard plate pivoted to the side wings, and a cross-rail carried by the door frame behind the door and at the free edge thereof, on which cross rail the free end of the guard plate is slidably supported, for elevating said guard plate above the door frame when the door is opened.

6. The combination of a door frame, a door hinged to said frame, a guard plate carried by the door on the inside thereof, and means carried by the door frame behind the door and at the free edge thereof for slidably supporting the guard plate, and for elevating said guard plate above the door frame when the door is swung open.

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

VERN I. MOSER.

Witnesses:
FRANK T. PRIEST,
A. M. ELRIGHT.

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