

L. ROSEN.
HOD OR BIN FOR COAL OR OTHER MATERIALS.
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1,001,691.

Patented Aug. 29, 1911.

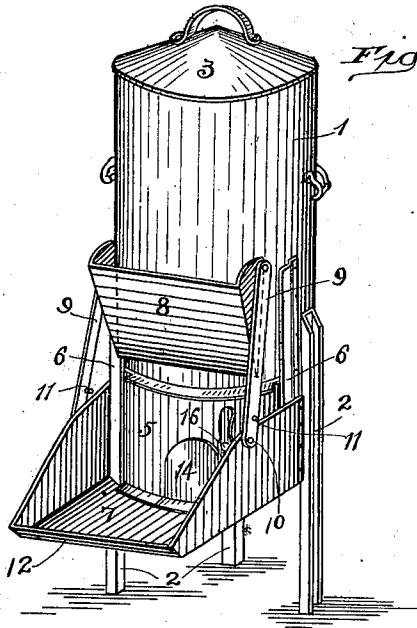


Fig. 1.

Fig. 2.

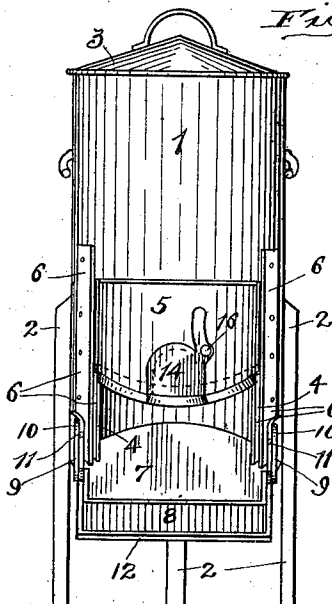
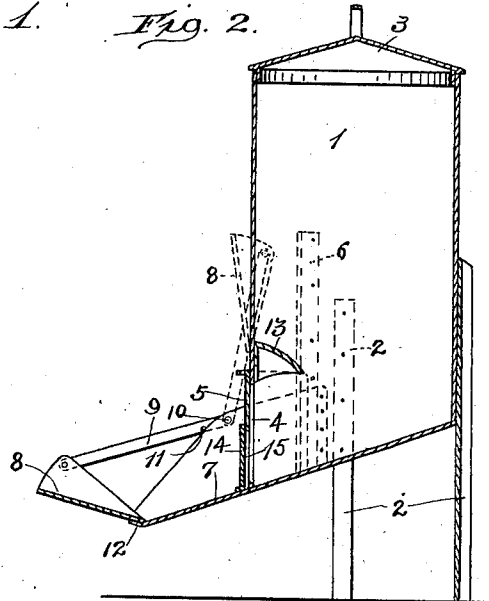


Fig. 3.

Fig. 4.

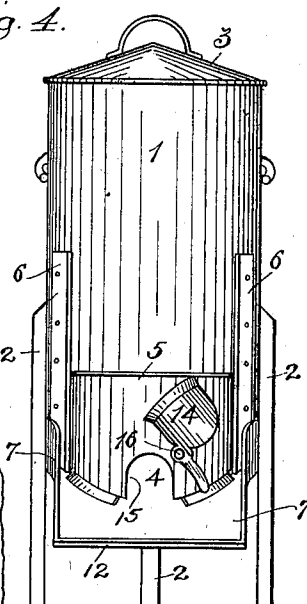
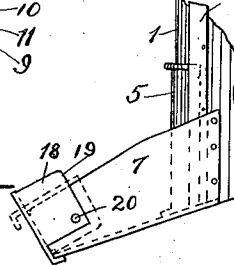


Fig. 5.



Witnesses:

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HOD OR BIN FOR COAL OR OTHER MATERIALS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LOUIS ROSEN, a subject of the Czar of Russia, but having declared my intention of becoming a citizen of the United States and having received my first papers toward naturalization, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hods or Bins for Coal or other Materials, of which the following is a specification.

This invention relates primarily to a portable hod or bin for holding coal, flour or the like, and facilitating its delivery into smaller receptacles, but certain of its features are applicable to stationary receptacles. Its salient features are a delivery chute which receives from the hod or receptacle proper through a sliding gate; a retarding shelf above said gate on the inside of the receptacle, to prevent too rapid flow of the contents; a damper at the foot of the gate to draw off fine and easily flowing material; a swinging tail-gate adapted to close the discharge end of the spout when desired, in order that the contents may be removed with a shovel or scoop.

In the drawings: Figure 1 is a perspective view of a hod or receptacle embodying my invention in the best manner now known to me; Fig. 2, a vertical, central section therethrough and through the spout and accessories; Fig. 3, a front elevation of the device taken from a point directly in advance of the spout, showing the head-gate open, or raised, and the tail-gate down; Fig. 4, a like view, showing the head-gate closed and its damper open, the tail-gate being omitted, and Fig. 5, a detail, representing a modification of the tail-gate, which may, however, be used with such gate, as an auxiliary, in which case it will serve as a dust-guard.

Referring now to said drawings, the numeral 1 indicates the hod, bin or receptacle, mounted upon legs 2 and having a lid or cover 3 to enable it to be filled. At the lower end of the receptacle proper there is a discharge opening 4, closed by a gate 5, hereinafter termed the head-gate, which gate slides in vertical ways 6, to open and close said discharge opening. The discharge opening delivers upon an inclined spout 7 whereby the material is conducted to any suitable holder or utensil.

Instead of discharging directly into a holder, the spout may, at will, be itself converted

into a temporary holder from which the contents may be removed by shovel or scoop. To this end a swinging tail-board 8 is provided to close the end of the spout, preferably upon an easy incline, as shown in Fig. 2, to facilitate the use of the shovel or scoop. The sides of this tail-board are pivoted, in the preferred construction, to links 9, which in their turn are pivoted at points 10 to the sides of the spout. Stops 11 prevent the links from falling too far so as to carry the tail-board past the spout. As thus constructed the tail-board may be folded up against the sides of the hod, as represented in Fig. 1 in full lines, and in Fig. 2 in dotted lines, or it may be let fall, when its pend-ent edge will strike the floor of the spout and be carried therealong until finally stopped against the lip 12 with the parts in relative position as represented in full lines in Fig. 2.

To regulate or retard the flow a curved deflecting shelf 13 is fixed to the interior wall of the receptacle (see Fig. 2) just above the discharge opening. The flow is further regulated by raising or lowering the head-gate. To provide for cases when the contents of the receptacle are so fine and rapidly flowing as not to be fully controllable by either of the above expedients, the head-gate is provided with a small swinging damper, 14, closing an opening 15 at its foot. When this damper is opened the head-gate will be invariably closed down against the flooring. The damper, in the present instance, is confined by a single pivot pin 16, and manipulated by a handle 17, as shown.

In the modification represented in Fig. 5, the tail-board 18 has rigid sides 19 pivoted directly to the sides of the spout by pins 20 which are situated so far down as to restrain any tendency to open. The full lines represent this tail-board when closed, and becomes a dust shield or guard. When swung up to the position represented by dotted lines it is open to admit a free flow of material. As such it can not be used with the tail-board of Figs. 1 and 2 in the specific form shown but may be used with other forms.

Having thus described my invention and the best manner now known to me in which it may be carried out, what I claim and desire to secure by Letters Patent of the United States of America is:

The combination of the receptacle having

a discharge opening, a vertically sliding head-gate, a damper located at its lower central portion, an inclined floor, an inclined chute, integral therewith and projecting outside of said receptacle; said inclined chute being provided with a swinging tail gate, pivoted to the sides of said chute, said

inclined floor and chute supported above the floor line, and adapted to discharge outside of said receptacle.

LOUIS ROSEN.

Witnesses:

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