No. 812,100. PATENTED FEB. 6, 1906.

G. H. THOMAS.

DUMPING WAGON.

APPLICATION FILED MAR. 11, 1905.

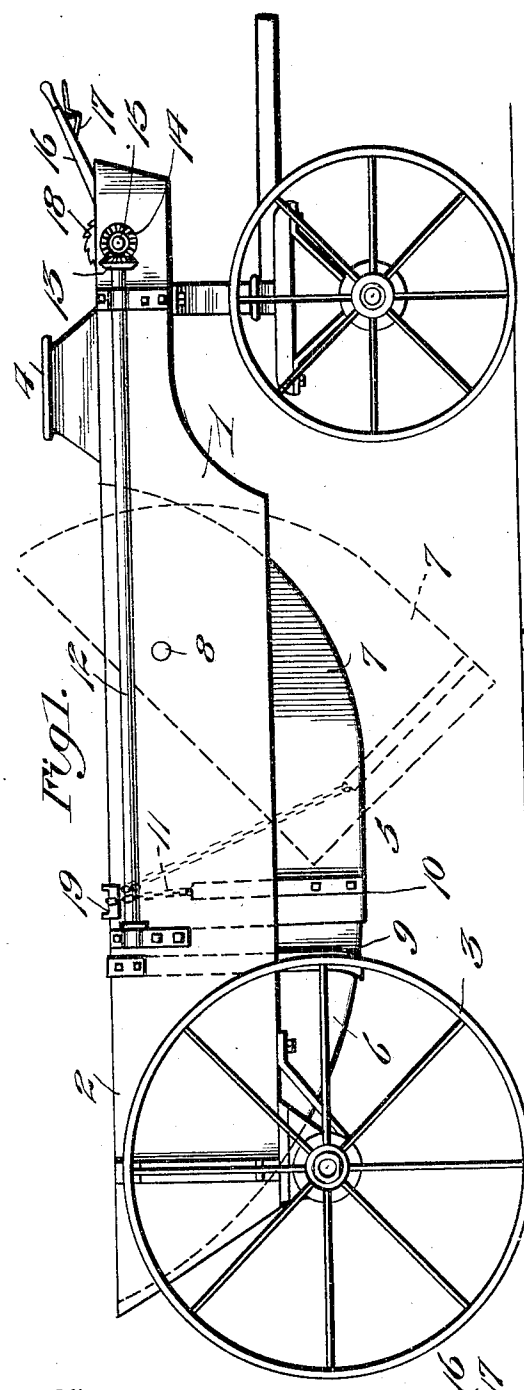

Fig. 1.

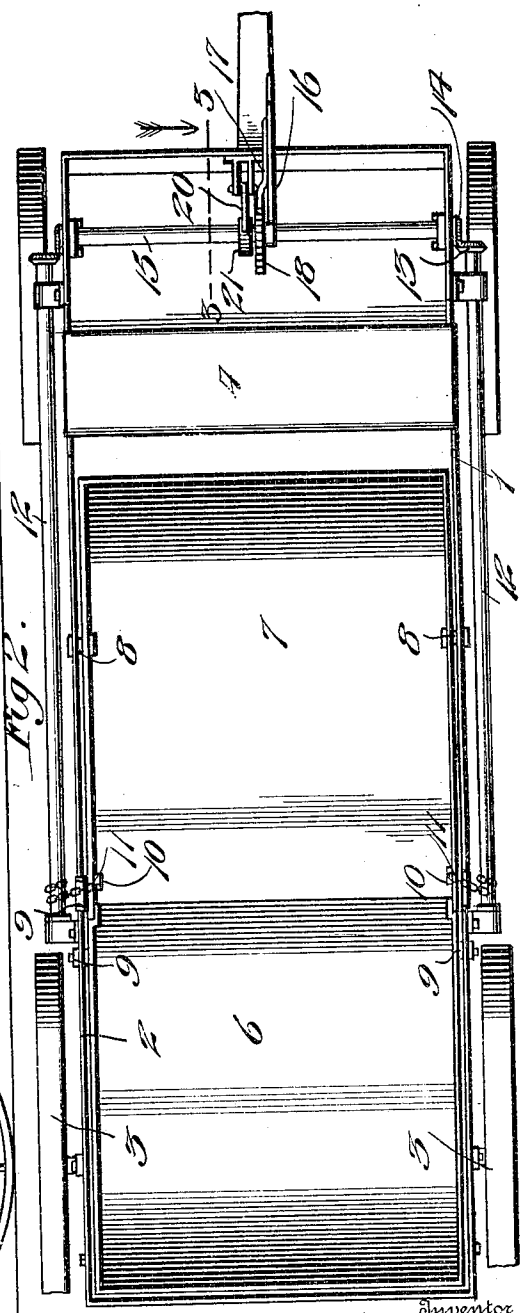

Fig. 2.

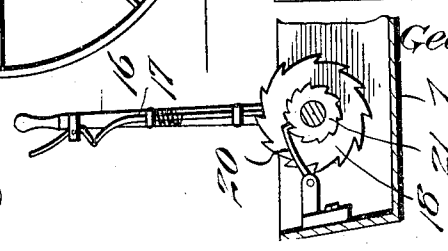

Fig. 3.

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GEORGE H. THOMAS, OF PHILADELPHIA, PENNSYLVANIA.

DUMPING-WAGON.

No. 812,100. Specification of Letters Patent. Patented Feb. 6, 1906.

Application filed March 11, 1905. Serial No. 249,618.

To all whom it may concern:

Be it known that I, GEORGE H. THOMAS, a citizen of the United States, residing at Wissahickon, Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Dumping-Wagons, of which the following is a specification.

This invention relates to dumping-wagons, and has for its objects to produce a comparatively simple inexpensive device of this character wherein the movable section of the body or tray may be readily moved to open or closed position by mechanism under convenient control of the operator, one wherein the entire contents of the wagon will be freely discharged, and one wherein the movable section when in discharging position will ride freely over underlying material.

To these ends the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a side elevation of a wagon embodying the invention and showing the discharging position of the movable section by dotted lines. Fig. 2 is a top plan view of the vehicle. Fig. 3 is a detail view, partly in section, taken on the line 3 3 of Fig. 2 and on an enlarged scale.

Referring to the drawings, 1 designates the vehicle-frame, comprising side bars 2 and sustained for travel upon transporting-wheels 3, there being mounted at the forward end of the frame a seat 4, these parts, except as heretofore explained, being of any appropriate construction and material.

Mounted within the frame 1 is a body or tray 5, comprising a fixed rear section 6 and a forward movable section 7, pivotally sustained by members or pintles 8, engaged with the side bars 2 of the frame, this section being fulcrumed in advance of its longitudinal center, whereby its rear end will swing freely downward by gravity to the position illustrated by dotted lines in Fig. 1. It is to be noted at this point that the bottom of each of the sections and its end wall merge into each other and follow a substantially continuous curve throughout the length of the section, whereby material contained within the tray will flow freely from the sections thereof during the discharging operation.

The forward or inner end of the section 6 is sustained by means of a strap or brace 9, looped therebeneath and bolted or otherwise attached at its ends to the side bars 2, while the adjacent rear end of the section 7 has fixed to the sides thereof attaching members or straps 10, the upper ends of which are engaged by flexible supporting elements or chains 11, engaged, respectively, with and normally wound upon rotary winding members or shafts 12, extended longitudinally of and journaled for rotation in suitable bearings on the side bars 2 of the frame 1, the members 12 being equipped at their forward ends adjacent the seat 4 with miter-gears 13, designed to mesh with similar gears 14, fixed upon the ends of a rotary operating member 15, preferably in the form of a counter-shaft journaled at its ends in the bearings on the side bars 2 and extended transversely of the frame 1, preferably at a point immediately in advance of the seat 4.

Pivoted upon and adjacent the longitudinal center of the shaft 15 is an actuating member or lever 16, having a dog or pawl 17, designed for engagement with a ratchet-wheel 18, fixed upon the shaft, whereby the latter may, through the engagement of the dog 17 with the ratchet and appropriate manipulation of the lever 16, be rotated for transmitting motion to the winding members or shafts 12, it being understood that operation of the latter serves to wind or unwind the supporting-chains 11 for raising or lowering the rear end of the tray-section 7, there being provided on the sides 2 guiding and bearing members 19, over which the chains travel during the raising and lowering operation of the section.

The operating mechanism is normally locked against movement by means of a movable latching member or dog 20, pivoted to the frame 1 and designed for engagement with a ratchet or keeper 21, fixed upon the shaft 15, it being obvious that when the latter shaft is held against movement the remaining parts of the mechanism will likewise be fixed through the medium of the intermeshing gears 13 and 14.

From the foregoing it is apparent that I produce a simple device in which the manipulation of the section 7 for discharging the contents of the tray is positively effected through the medium of the shafts 12 and 15, one wherein the operating mechanism is under thorough control of the operator and may be conveniently manipulated from the seat 4 or locked against movement. It is to be understood that in attaining these ends minor changes in the details herein set forth may be

resorted to without departing from the spirit of the invention.

Having thus fully described the invention, what is claimed as new is—

In a device of the class described, a frame, a tray mounted therein and including a movable section, winding-shafts disposed upon opposite sides of the frame and having bevel-gears fixed thereon, flexible elements connected with said section and adapted to be wound upon the shafts, a counter-shaft extended between and having bevel-gears engaging those on the winding-shafts, a ratchet fixed on the counter-shaft, an operating-lever pivoted on the latter and having a pawl adapted for engagement with the ratchet to actuate the counter-shaft, and a latching member adapted for normally locking said shaft against rotation.

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

GEORGE H. THOMAS.

Witnesses:
JOHN F. ROBINSON,
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