

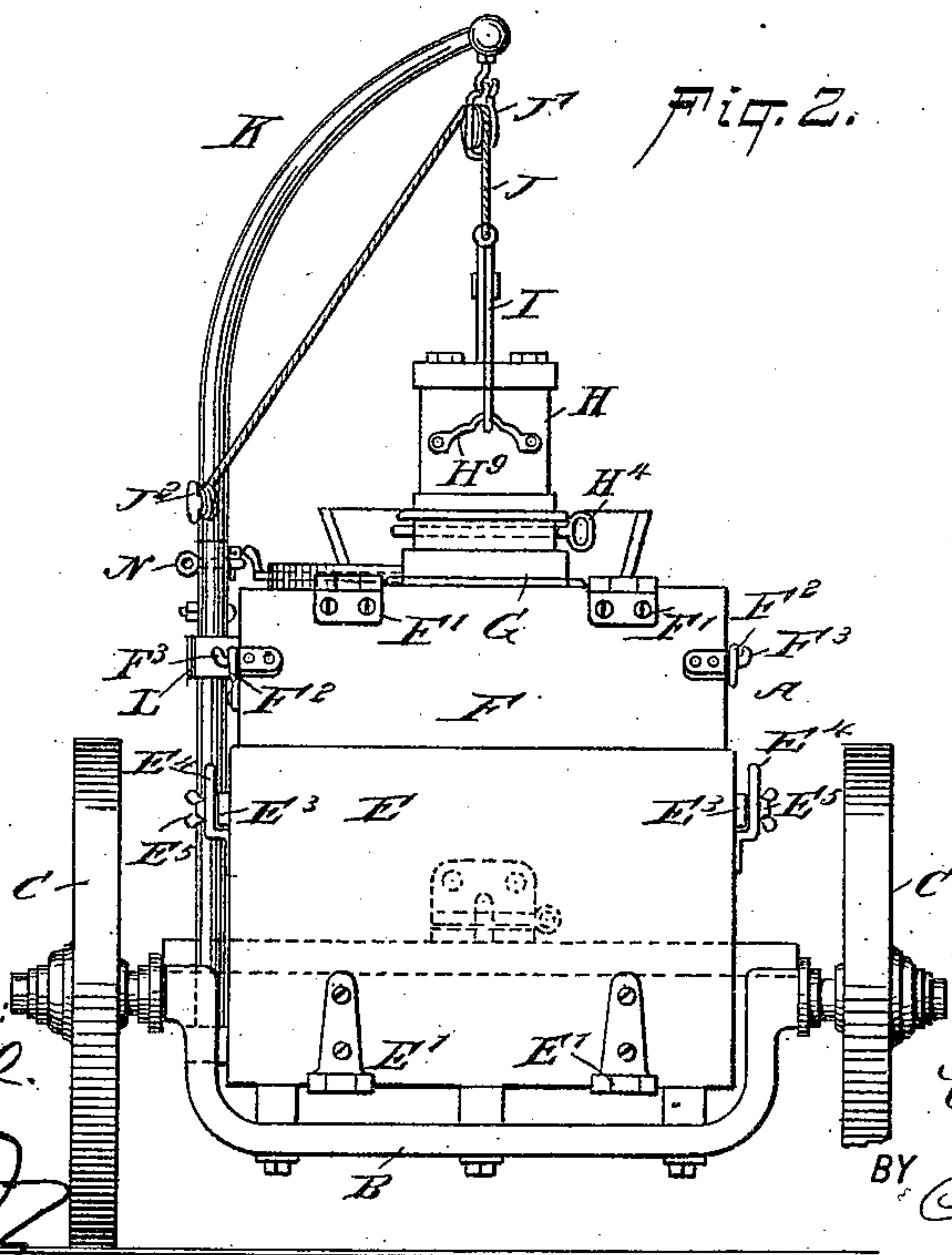
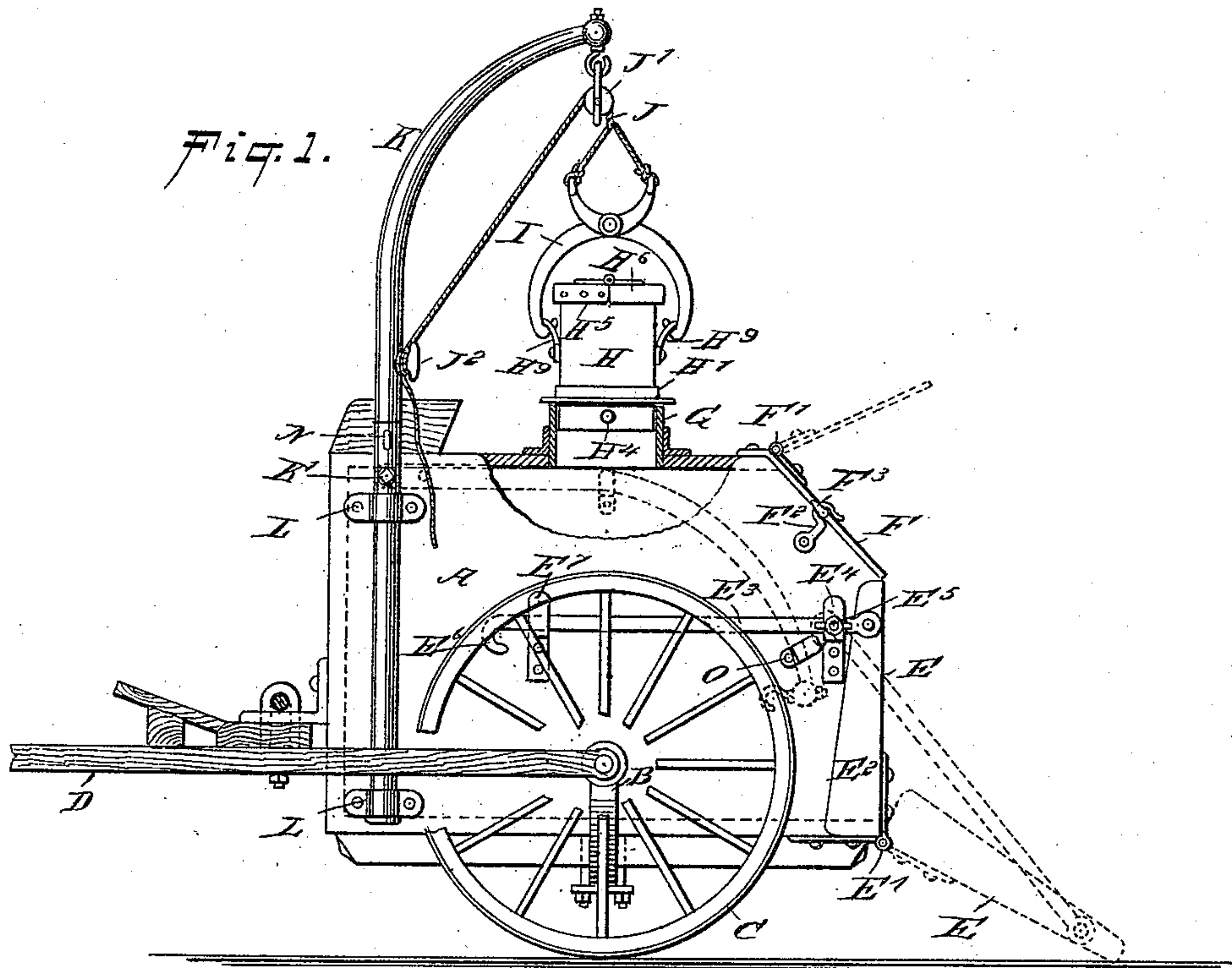
(No Model.)

2 Sheets—Sheet 1.

W. GOETZ.
APPARATUS FOR REMOVING GARBAGE.

No. 550,963.

Patented Dec. 10, 1895.



WITNESSES:

William Goebel.

Phy. & Chem.

INVENTOR

W. Goetz

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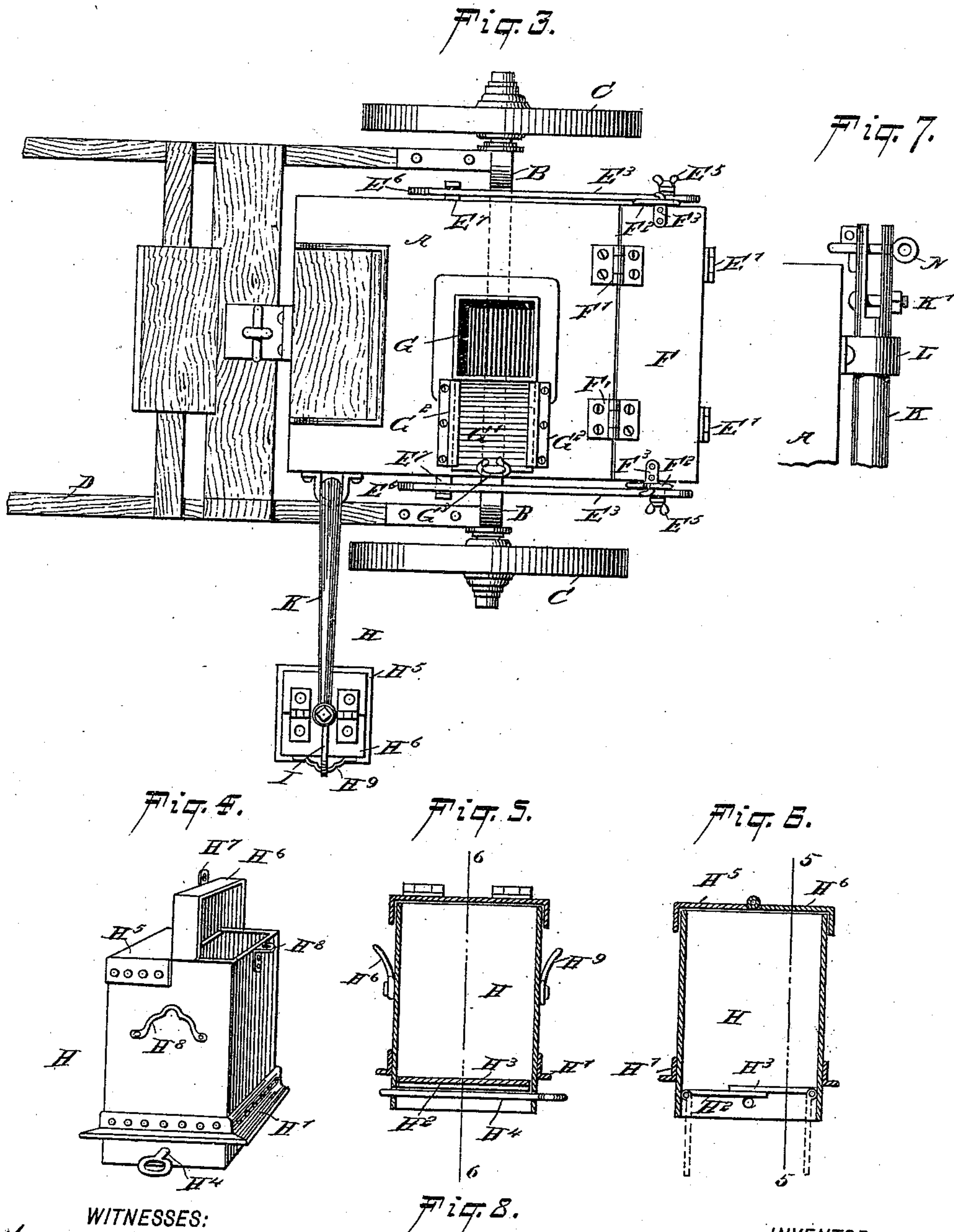
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WITNESSES:

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UNITED STATES PATENT OFFICE.

WOLFGANG GOETZ, OF NEW YORK, N. Y.

APPARATUS FOR REMOVING GARBAGE.

SPECIFICATION forming part of Letters Patent No. 550,963, dated December 10, 1895.

Application filed February 2, 1895. Serial No. 537,067. (No model.)

To all whom it may concern:

Be it known that I, WOLFGANG GOETZ, of New York city, in the county and State of New York, have invented a new and Improved
5 Apparatus for Removing Garbage, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved apparatus for removing
10 garbage, other refuse, ashes, &c., in a very simple and comparatively inexpensive manner, at the same time preventing disagreeable and unwholesome odors and scattering of the matter in the house or on the street.

15 The invention consists principally of a wheeled wagon-body provided at its top with a receiving-spout adapted to be closed by a slide and a gate at the rear end of the body and adapted to be held in an open or partly-
20 open position to permit of filling in from the rear.

The invention further consists of a box adapted to be seated on the wagon-spout and provided with drop-bottom doors, the said box
25 being provided with a cover, of which a part is fixed and a part is hinged.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then
30 pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

35 Figure 1 is a side elevation of the improvement with parts in section. Fig. 2 is a rear end view of the same. Fig. 3 is a plan view of the same. Fig. 4 is a perspective view of the combined ash and garbage box. Fig. 5
40 is a sectional side elevation of the same on the line 5 5 of Fig. 6. Fig. 6 is a transverse section of the same on the line 6 6 of Fig. 5. Fig. 7 is an enlarged side elevation of part of the davit, and Fig. 8 is an enlarged sectional
45 side elevation of the spout and its slide on the top of the wagon-body.

The improved apparatus consists of two principal parts—namely, a wheeled wagon-body A and a combined ash and garbage box
50 adapted to be filled, in the house, with refuse, ashes, &c., and carried in a hermetically-sealed condition to the street to be lifted upon

and connected with the top of the wheeled wagon to finally discharge the contents of the box into the body of the wagon without
55 in the least exposing the contents of the box, so as to prevent unwholesome odors from escaping either in the house or on the street.

The wheeled wagon-body A is preferably made of sheet metal and is secured at its
60 bottom and part of the sides to a U-shaped axle B, provided at its ends with the wheels C and the shafts D, arranged for either a single horse or a team, as the case may be.

On the rear end of the wagon-body A is ar-
65 ranged a gate E, hinged at its lower end at E' to the bottom of the body A, and the said gate is provided at its sides with flanges E², adapted to fit over the sides of the wagon-body when the gate is closed or partly closed. The flanges
70 E² are pivotally connected near their upper ends with bars E³, each adapted to be clamped by a screw E⁵ to the said body A, the said screw E⁵ screwing in a bracket E⁴, forming
75 a support for the bar E³. By this arrangement the gate E can be swung fully open, as indicated in dotted lines in Fig. 1, or in a partly-open position, it being understood that by the screws E⁵ the bars E³ can be clamped
80 in position, so as to hold the gate in the desired open, partly-open, or closed position. The rear end of each bar E³ is preferably formed
85 with a handle or hook E⁶, and the said rear end of the bar is supported in a bracket E⁷, secured to the side of the body A. Directly
90 above the gate E and on an inclined part of the wagon-body is arranged a cover F, hinged at its upper edge at F' to the top of the body A, the free end of the said cover terminating at or near the upper edge of the gate E when
95 the latter is in a closed position.

Now it will be seen that as the wagon-body A is filled, say, from the rear at the time the gate E is open the latter is gradually closed as the body fills up, and when the wagon is
95 nearly filled and the gate E is closed then the cover F can be swung open to permit of filling the wagon-body to the top without danger of spilling the contents already in the body of the wagon A. The cover F is adapted to
100 be fastened in position by hooks F², pivoted on the sides of the body A and engaging suitable lugs F³, projecting from the sides of the cover F.

On the top of the body A is arranged a receiving-spout G, preferably made square or rectangular and adapted to be closed by a slide G', fitted to slide transversely in suitable bearings G², attached to the top of the body A next to the spout G. (See Figs. 3 and 8.) The slide G' is provided with a suitable handle G³, adapted to be taken hold of by the operator to open and close the spout, as required and hereinafter more fully described.

Upon the upper end of the spout G is adapted to be set a flange H', formed near the lower end of a combination ash and garbage box H, projecting with its lower end into the spout, as indicated in Fig. 1. This box H is preferably made of sheet metal, with the inside glazed or enameled, so as to permit a ready discharge of the contents without danger of the matter adhering to the walls of the box. This garbage-box H is provided in its lower end with the hinged drop-doors H² H³, overlapping one upon the other, as is plainly indicated in Fig. 6, the free end of the lowermost door H² being adapted to be rested on a pin H⁴, inserted in apertures in the sides of the box, as is plainly shown in Fig. 5. Now it will be seen that by withdrawing this pin H⁴ the support for the drop-bottom doors is removed, and consequently the latter can swing open to discharge the contents of the box H through the spout G into the interior of the wagon-body A. This construction permits the garbage from box H to be deposited into the body A without exposure of the garbage contained in said box or said body to the air, whereby the offensive odors are prevented from escaping, since it will be seen that the slide G' remains in its closed position until the box has been placed over the spout G and the hinged bottom of the box H is supported by means of its pins H⁴ until said slide G' has been drawn out to permit the garbage to fall into the body of the wagon. The box H is provided with a cover, of which the part H⁵ is fastened to the sides of the box and the other part forms a lid H⁶, hinged to the part H⁵, so as to permit of swinging this lid open to fill the box with sashes, garbage, or other refuse. The lid H⁶ is provided with a projection H⁷, adapted to register with a projection H⁸ on the body of the box, the said two projections being apertured to receive a suitable padlock or other locking device to prevent opening of the lid while transporting the receptacle from the house to the street.

On the sides of the box H are arranged handles H⁹ for conveniently carrying the box around and also for attaching a pair of gripping-hooks I to the said handles to lift the box H from the street to the spout G. For this purpose the gripping-hooks I are hung on a rope J, passing over a sheave or pulley J', held on the upper end of a davit K, mounted to swing on the side of the body A near the front thereof, as plainly shown in the drawings.

The lower end of the rope J is adapted to be fastened by a cleat J² on the said davit K, and the latter is preferably made in two parts, of which the upper part is pivoted at K' between forks or bifurcations formed at the upper end of the lower part and is adapted to be fastened in place to the lower part by a key N. The lower davit part is mounted to swing in bearings L, secured to the sides of the box H. Now it will be seen that by this arrangement the gripping-hooks I can be readily attached to the handles H⁹, and by the operator then pulling on the lower end of the rope J can raise the box H to the proper height, after which the operator swings the davit K inward to move the box H over the spout G. By then lowering the rope and the box H the latter engages with its lower end the spout G, the flange H' then resting on the top edge of the said spout. (See Fig. 1.) The operator now withdraws the pin H⁴ to permit the drop-doors to swing downward into an open position, (see dotted lines in Fig. 6,) so that the contents of the box H are discharged through the spout G into the body A. After this has been done the operator pulls on the rope J to lift the box H off the spout G, and the latter is then immediately closed by moving the slide G' inward into a closed position, as shown in Fig. 8.

By the arrangement described the wagon-body A can be readily filled with street-sweepings at the rear of the body A at the time the gate E is open or partly open, and likewise the house refuse, ashes, &c., can be unloaded into the said body A in the manner above described, at the same time bringing the combined garbage and ash box up to the required sanitary conditions.

When the davit K is not in use—that is, when the wagon is taken to the place of discharge to be emptied—then the upper part is swung into the position shown in dotted lines in Fig. 1, with the free end resting on a suitable support O.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. An apparatus for removing garbage, provided with a garbage box comprising a body having a hinged lid at its upper end and having its lower end open, doors hinged at the opposite sides of said open lower end and adapted to fold centrally to close the same, the ends of said doors being arranged to overlap when closed, and a pin removably arranged in the box below the overlapping portions of the doors for holding the doors in their closed position, substantially as set forth.

2. An apparatus for removing garbage, comprising a wagon body formed in its top with a receiving spout, a davit made in two parts, of which the lower part is mounted to turn on one side of the body, and the upper part is adapted to be folded upon the said

body and a support on the side of the wagon body for the free end of the upper part of the davit when folded, substantially as described.

5 3. An apparatus for removing garbage, comprising a wagon body formed in its upper part with a receiving spout, a davit made in two parts of which the lower part is rotatively mounted in a vertical position on one side of the wagon body and provided with bifurca-
10 tions at its upper part, and the upper part is pivoted at its lower end between the lower portions of the bifurcations of the lower part of the davit and adapted to be folded down
15 sidewise against the side of the wagon body, and means for holding the upper part of the davit in an erect position when in use, substantially as described.

4. An apparatus for removing garbage, comprising a body having a receiving spout

in its top, a slide extending across said spout 20 below the top of the same, and adapted to be removed through an opening in the side of the spout, a box having an open lower end and provided with a projecting exterior flange adapted to rest on the upper edge of the re- 25 ceiving spout, doors hinged at opposite sides of the open lower end of the box and adapted to fold centrally to close the same, the ends of said doors being arranged to overlap when closed, and a pin removably arranged across 30 said box below said overlapping portions of the doors and adapted to support the doors in their closed position, substantially as shown and described.

WOLFGANG GOETZ.

Witnesses:

THEO. G. HOSTER,
C. SEDGWICK.