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A. R. VON KELLER
METHOD OF COLLECTING, TRANSPORTING, AND
DUMPING REFUSE, SUCH AS GARBAGE
Filed March 19, 1930

1,845,369

Fig. 1.

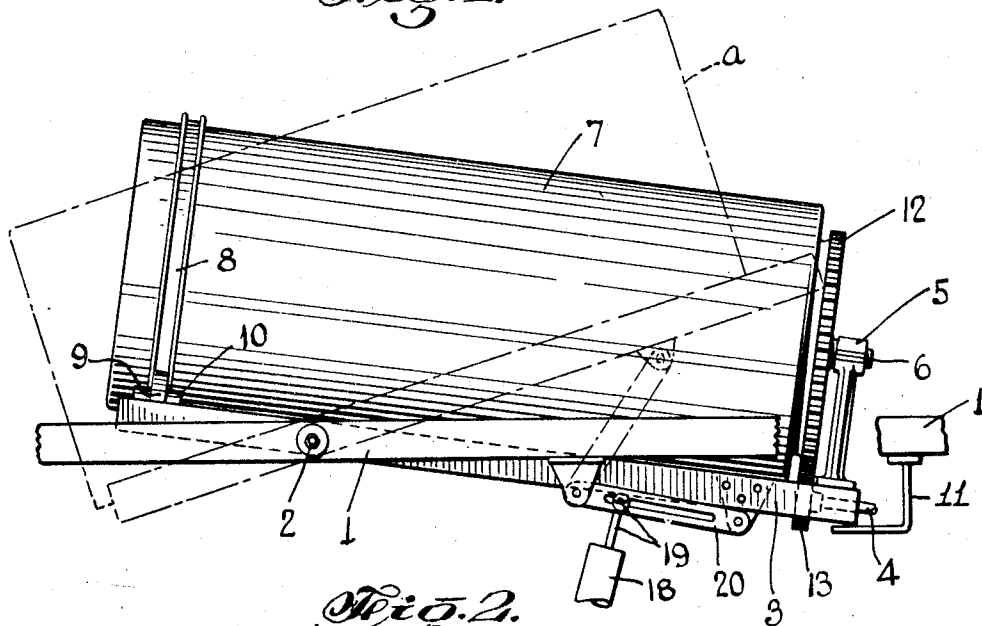


Fig. 2.

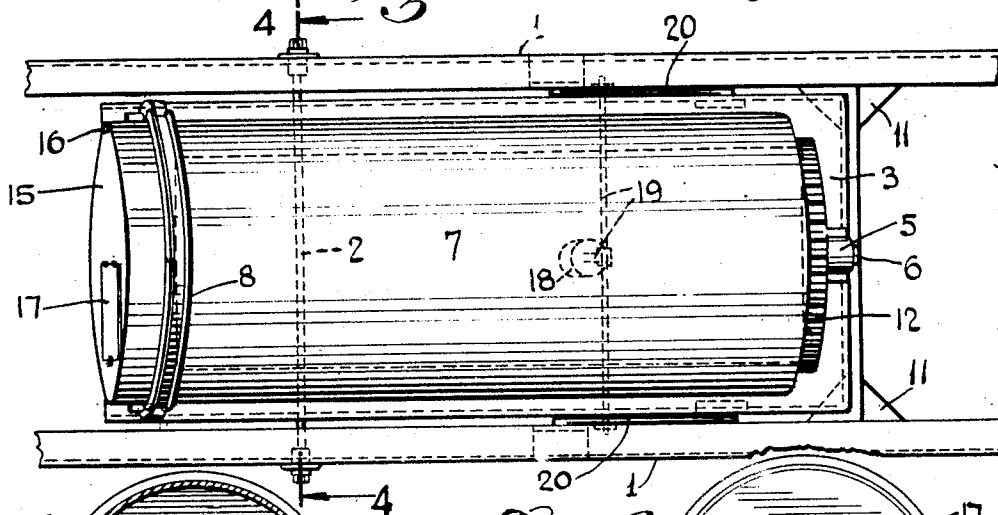


Fig. 4.

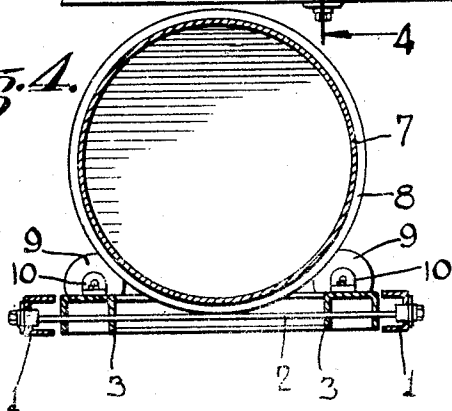
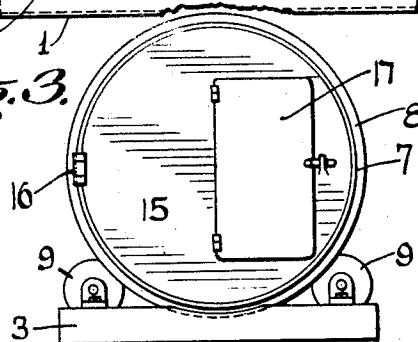


Fig. 3.



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METHOD OF COLLECTING, TRANSPORTING, AND DUMPING REFUSE, SUCH AS GARBAGE

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The object of the present invention is to provide a novel method of collecting, transporting and dumping refuse such as garbage and which employs the use of a type of refuse carrier constructed so as to move the refuse from the rear or reception point of the receptacle to the front thereof, the receptacle being capable of oscillation or rotation, and normally disposed with its axis downwardly inclined toward the front. Means are provided for tilting the receptacle and its carrying members, for discharge of the refuse. The invention will be described with reference to the accompanying drawings, in which

Fig. 1 is a side elevation of an apparatus for carrying out the method.

Fig. 2 is a plan view of the same, the receptacle being shown partly broken away.

Fig. 3 is a transverse sectional elevation on the line 4-4, Fig. 2; and

Fig. 4 is a rear end elevation of the receptacle and its immediate supporting members.

In the drawings, I have indicated at 1, the side frame members of a truck chassis. Pivoted at 2, upon the truck frame is a sub-frame 3. At the forward end of the sub-frame 3 is a post 4, formed with an aperture head 5 adapted to receive a shaft 6. Shaft 6 is carried by a tank receptacle member 7 axially of the latter. Near the opposite end of the tank receptacle member 7 is a channeled ring 8.

Within the ring and supporting the tank receptacle near its end opposite shaft 6 are two rollers 9. Each roller is pivotally mounted in a supporting bracket 10, carried by sub-frame 3. The pivotal points 2 are disposed rearwardly of the center of gravity of tank receptacle 7, and the latter normally is inclined forwardly as indicated in Fig. 1 of the drawings. In such position the sub-frame 3 may rest upon a strut 11 connecting the side frame members 1 of the chassis frame.

Fixed to shaft 6 is a gear wheel 12 in mesh with the pinion 13 carried by shaft 4, shaft 4 being suitably carried by the sub-frame 3. In practice shaft 4 will be operatively connected to the truck motor so that the tank receptacle 7 may be rotated or oscillated, the connections forming no part of the present invention and not being shown.

At its rear end the tank receptacle is provided with a cover member 15 hinged at 16, and the cover member may be provided with a hinged door 17, through the opening of which barrels or cans of refuse may be dumped into the tank receptacle whilst maintaining the major end portion closed. Suitable means will be provided for elevating the tank receptacle to dumping position. For example, a hydraulic cylinder 18 may have its piston rod 19 connected to a lever 20, secured to sub-frame 3 for raising the same to the dotted line portion *a*, Fig. 1, which is a suitable dumping position.

In the operation of the device, the tank receptacle will receive the refuse through door 17, and by the means above described, or through other suitable means, the tank receptacle will be oscillated or rotated in its inclined position. This will tend to carry the refuse to the front end of the tank receptacle and gradually cause it to become compact. In other words, the operation of the device automatically "trims" the contents of the refuse tank. The angle of the tank during rotation may be approximately 70°, or as desired. When the tank receptacle is filled, it may be transported by the truck to dumping position, and the dumping effected as above described.

Having described my invention, what I claim and desire to secure by Letters Patent is as follows:

A method of collecting, transporting and dumping refuse such as garbage which consists in placing the garbage in a cylindrical container closed at its rear end and rotating the container with the axis thereof inclined from the horizontal toward the rear end of

the container until the garbage is compressed by gravity and substantially free from pockets and air spaces and thence dumping the garbage as a compacted mass, from the container.

In testimony whereof, I have signed my name to this specification.
ARTHUR REGINALD VON KELLER.

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