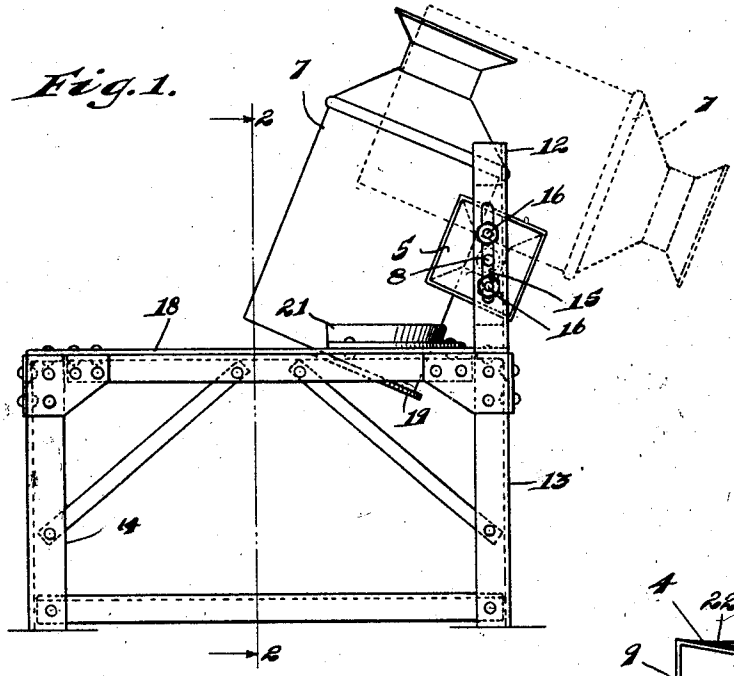
Sept. 21, 1926. 1,600,416

C. F. McEWAN

MILK CAN DUMPER

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Fig. 1.



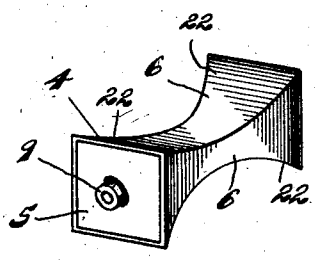
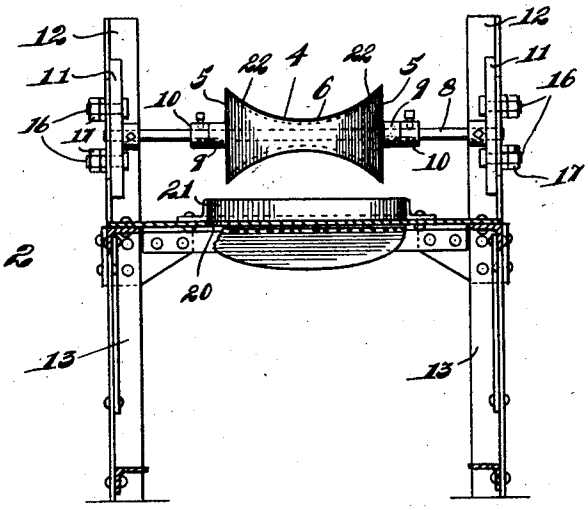


Fig. 3

Fig. 2



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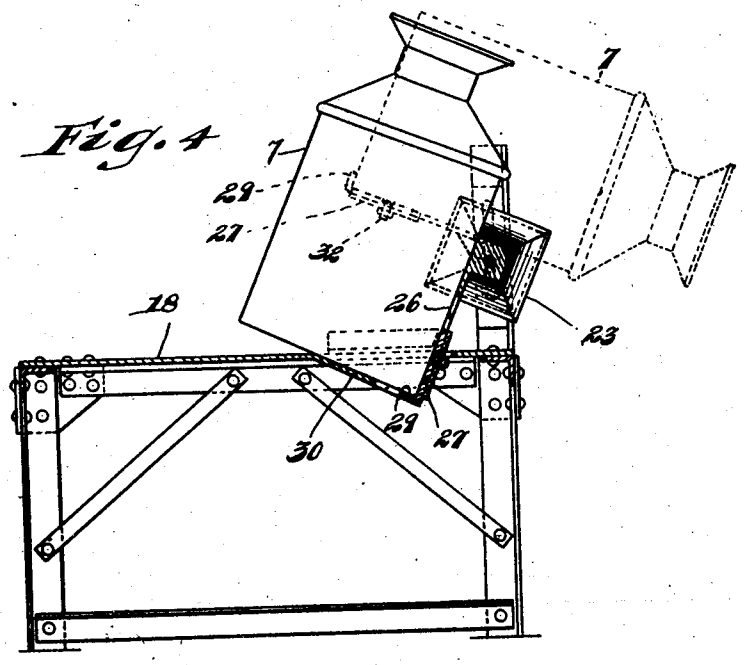
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MILK CAN DUMPER

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Fig. 4



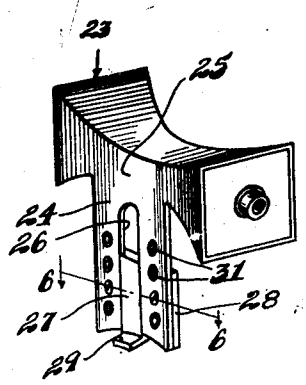


Fig. 5

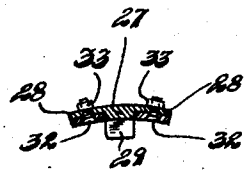


Fig. 6

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UNITED STATES PATENT OFFICE.

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MILK-CAN DUMPER.

Application filed February 27, 1925. Serial No. 11,927.

My present invention relates to milk can dumpers and the same has for its main object the provision of an improved dumper of this class, which will be simple in construction, economical in manufacture, and highly efficient in use.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 represents a side elevational view of a milk can dumper construction made in accordance with the present invention;

Fig. 2 represents a cross sectional view taken approximately on line 2—2 of Fig. 1;

Fig. 3 represents a perspective view of the dumper body detached;

Fig. 4 represents a central vertical section through a milk can dumper construction embodying a dumper body having a can holder;

Fig. 5 is a perspective view of a dumper body provided with a can holder; and

Fig. 6 is a cross section, taken on the line 6—6 of Fig. 5.

With more particular reference to the accompanying drawings, wherein I have illustrated the preferred embodiment of my invention, the reference character 4 is employed to designate as a whole a rotary can dumper comprising an elongated dumper body having square or approximately square ends 5 and formed intermediate said square ends with concaved faces 6, each adapted to serve as a support or rest for a milk can as 7 during the tilting and inverting of the can into position for the discharge of its contents.

The dumper body 4 is mounted for free rotation upon a longitudinally extending axis 8, the method of rotatably mounting the dumper body upon the axis consisting preferably, as herein shown, in providing each end 5 with a centrally located bearing 9 adapted to freely rotate upon the said axis 8. As a means of operatively maintaining the dumper body on the axis 8 at the position desired, stop-collars 10 are applied to the axis 8 at the remote extremities of the bearings 9. The axis 8 carrying thereon the dumper body 4 may be supported in any suitable manner at any suitable place where-at it is desired to support milk cans while they are being inverted into position to discharge their contents.

In the embodiment shown in the accompanying drawings, axis 8 is supported in blocks 11 adjustably held upon the uprights 12 which constitute extensions of the leg supports 13 for one end of the table structure 14. The method of adjusting the blocks 11 upon the uprights 12, in the exemplification shown consists in providing elongated slots 15 in said uprights, in passing through said slots the bolt elements 16 of the blocks and in applying to said bolt elements the securing nuts 17. By this arrangement the dumper body 4 can be adjusted relatively to the top 18 of the table structure.

In front of the dumper body the table top is provided with means whereby to tilt the can to be dumped into one of the concaved faces 6 of the dumper body preparatory to turning the dumping body and discharging the contents of the can. To this end the table top 18 has a portion thereof sheared out to produce a downwardly inclined tilt segment 19. Upon the edge 20, which results from the production of the tilt segment 19 there is applied an arcuate guide or rest member 21 designed to receive the milk can when the latter is moved or slid onto the tilt plate 19. In practice, the can to be dumped is slid upon the table top and onto the tilt segment 19 whereby the can is automatically tilted into a concaved face of the dumper body. In this connection it may be noted that preferably the concaved faces of the dumper body are so formed that the periphery of the milk can will engage and rest entirely upon the opposite regions 22, so that the can will not readily slip during the dumping operation. When the can to be dumped has been tilted into a concaved face, it is only necessary to hold the can to the dumper body while swinging the can and dumper body about the axis 8 until the contents of the can is discharged, the weight of the can during this operation being carried entirely by the dumper body.

In the construction shown in Figs. 4 and 5, the dumper body 23 is made and mounted precisely like the dumper body 4, but it is made with a can holding member 24 which projects from a concaved face 25, as clearly

shown in Fig. 5. This projecting member 24 is provided with a central longitudinal slot 26 in which is slidably fitted a shoe 27 having wings 28 which engage over the back of the holding member 24, and having also a lug 29 adapted to engage over the can bottom. In this construction, the can tilt segment 30, produced as before from the table top 18, is shortened so as to provide a space for the movement of the can holder 24 during can dumping operations and also so that the lug member 29 may come in direct alignment with the tilt segment 30 to receive the can directly therefrom. As clearly illustrated in Figs. 5 and 6 the shoe 27 is adjustably secured to the can holder 24, the means employed for this purpose consisting of a plurality of apertures 31 suitably provided in the can holder 24 and shoe wings 28, for the reception of the screw bolts 32, to which are applied the securing nuts 33 in the usual way.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A milk can dumper including a dumper block body arranged for rotary movement and provided between its ends with a face proportioned to receive and retain a can to be supported and turned with the dumper body, substantially as described.

2. A milk can dumper including a pair of supporting members, a dumper body, an axis rotatably supporting the dumper body upon and between the supporting members, and a transverse concavity extending inwardly into the dumper body to provide a seat for the repose of the milk can to be dumped, substantially as described.

3. A milk can dumper including an elongated body having end portions and a plurality of concaved faces intermediate said end portions, said concaved faces affording rests wherein to support a can to be dumped, and a supported central axis providing for the free rotation of said elongated body, substantially as described.

4. A milk can dumper including supporting members, blocks arranged for adjustment on said supporting members, a dumper body, an axis supporting said body and journalled in and between said blocks, said dumper body affording means for holding a can to be dumped, substantially as described.

5. In combination, a milk can supporting surface, a can tilt segment arranged therein, and a rotary dumper body arranged in relation to said tilt segment and adapted to receive the can when tilted and to support the can during the dumping operation, substantially as described.

6. In combination, a milk can supporting surface, a segment inclined downwardly from said surface to constitute a can tilt segment, and a rotary dumper body arranged in relation to said can tilt segment to receive the can when tilted and to support the can during the dumping operation, substantially as described.

7. In combination, a milk can supporting surface, a segment inclined downwardly from said surface to constitute a can tilt, a segmental guide for the can, and a rotary dumper body arranged in relation to said can tilt and guide to receive the can when tilted and to support the can during the dumping operation, substantially as described.

8. A milk can dumper including a table structure, means arranged in the top of the table for tilting a can, and means arranged above the table for receiving the can when tilted and for supporting the can during the tilting operation, substantially as described.

9. A milk can dumper including a table structure having a top, a segment downwardly inclined from the top of the table to receive and tilt a can, and a rotary dumper supported upon the table and adjustable in relation to said can tilt, said dumper having a recessed face affording a rest for the can when tilted and adapted to hold the can during the dumping operation, substantially as described.

10. A milk can dumper including a pair of supporting members, a dumper body, an axis rotatably supporting the dumper body upon and between the supporting members, a transverse concavity extending inwardly into the dumper body, and a projection on the dumper body curved transversely in agreement with the concavity, said concavity and projection jointly comprising a seat for the repose of a milk can to be dumped, substantially as described.

11. A milk can dumper including a milk can supporting surface, a segment inclined downwardly therefrom to constitute a can tilt, a dumper body arranged in relation to the can tilt, a member projecting from said dumper body and adapted to receive the can when tilted and to hold the can to the dumper body during dumping operation, substantially as described.

In testimony whereof I have signed my name to this specification.

CHARLES F. McEWAN.