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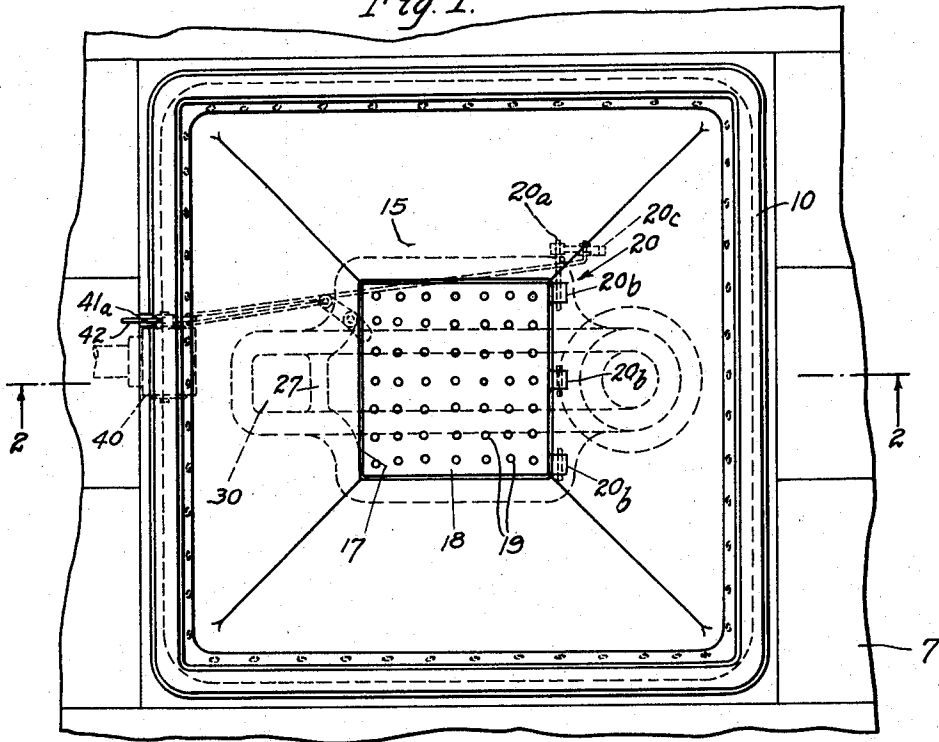
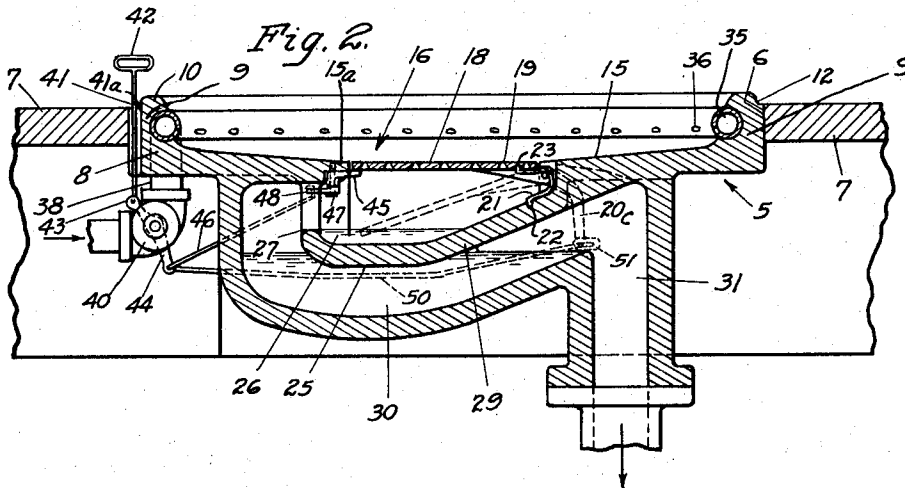
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ANIMAL TOILET

Filed March 7, 1930

Fig. 1.



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ANIMAL TOILET

Application filed March 7, 1930. Serial No. 434,015.

This invention relates to an animal toilet designed more particularly for the use of cats and dogs but possibly adapted also for use by other animals.

6 An object of the invention is to provide an inexpensive efficient sanitary toilet device adapted for being permanently installed in the floor of a dwelling house and to be connected with the plumbing of the building in order to be used to flush out the excrement deposited by the animals confined within the house.

Another object of the invention is to provide a device of the class stated which animals may use without discomfort and with regard to which there will be nothing to which they object, thus providing a toilet device for them which they may readily be trained to use.

20 Among other objects of the invention are to provide a device of this character which will be an improvement upon others of its class with regard to general simplicity of construction, one which may readily be installed, which will not materially disfigure the appearance of the room, and which will operate in a more dependable efficient manner.

Other objects, advantages and features of invention may hereinafter appear.

Referring to the accompanying drawings which illustrate what is at present deemed to be a preferred embodiment of the invention,

35 Fig. 1 is a plan view of the toilet showing the same as it appears when installed in the floor of a dwelling room.

Fig. 2 is a transverse section on line 2—2 of Fig. 1.

40 Referring in detail to the drawings, the toilet bowl may be designed in a variety of ways but is illustrated as a rectangular bowl or basin 5 which is fitted within a correspondingly shaped opening 6 in the floor 7. Said bowl comprises an upper portion 8 shaped as a shallow rectangular basin and preferably having around its wall portion 9 an upstanding lip 10 which projects slightly above the level of the surface of the floor 7. Around the lip 10 is preferably provided a slope, chamfer or groove 12 which gives a

more ornamental appearance to the device and avoids presenting a sharp corner therearound.

The toilet bowl 5 is provided with a transverse cross wall portion 15 which forms the bottom of a relatively shallow depression 16 enclosed within the wall portion 9. In the central portion of the wall 15 is located a rectangular opening 17 within which is fitted a hingedly mounted plate 18, said plate being provided with a number of perforations 19. Said plate is provided at one edge with hinges 20, and is also provided adjacent said edge with springs 21 which normally support it in a substantially horizontal position. Said springs 21 are shown as made of wire loops each having at one end a prong 22 and at the other end a prong 23 whereby it is held in place between the bowl and the perforated plate 18.

Beneath said plate 18 the wall 25 forms the bottom of the bowl receptacle 26, said receptacle 26 having a discharge passage 27 at one side thereof. Said wall 25 has a sloping portion 29 at one side thereof and is of a general construction well known in the art. Beneath said wall 25 is provided the flush out passage 30 which communicates at one end with the passage 27 and at the other end is upwardly inclined to make a liquid seal and communicates with the upper end of the usual sewer outlet pipe 31.

Around the top of the toilet extends the flush-out pipe 35 which is provided along its inner side with the discharge openings 36, said openings 36 being directed somewhat downwardly to direct the stream of water as desired. This flush-out pipe 35 is connected with the supply pipe 38, the water supply from said pipe 38 being controlled by a valve 40 which is preferably operated by a vertical push rod 41 having a handle portion 42 at its upper end. Said valve 40 is provided with an operating arm 43 to which the lower end of said push rod 41 is pivoted, push rod 41 operates in a channel 41a.

Said valve 40 is also provided with a downwardly extending arm 44 the latter arm being operatively connected with a button 45 by means of a rod 46, said button 45 being

pivottally attached to the ledge 15a of the bowl by means of a screw pin 47, and having a lateral arm 48 to which rod 46 is connected. In Fig. 2 the button 45 is shown in position to support the plate 18, but when the valve 40 is operated by the push rod 41 through the rod 46 said button is turned to permit the free end of the plate 18 to be depressed against the opposition of its supporting spring 21.

Means are provided whereby at the same time that the valve arm 44 turns the button 45 in the manner already described, it also depresses the plate 18 against the opposition of its supporting spring 21. For this purpose one of the hinges 20 comprises a pin 20a which is made fast to the lug 20b, said lug in turn being made integral with or in fixed relation to the plate 18. Said pin 20a has fixed to one end thereof an operating arm 20c and this operating arm is pivottally connected with one end of rod 50, the other end of said rod 50 being pivottally connected with the valve arm 44. There is preferably a slotted foot 51 formed on the lower end of arm 20c in order to provide a lost motion connection between said arm 20c and the rod 50.

In putting the device into use it is not necessary to cover the same or any portion thereof with dirt or litter, because the animals will be trained to use it without this being done. When it is desired to cleanse the toilet bowl the rod 41 is depressed thus opening valve 40. During the first part of the opening movement of valve 40, through the operating connection afforded by valve arm 44, rod 46 and the button 48, the button 45 is turned to the releasing position. By the time the button is thus released the rod 50 has moved to the limit of the lost motion connection with head 51 or arm 20c, and therefor during the final portion of the opening movement of valve 40, said arm 50 causes the plate 18 to be depressed to the inclined position indicated in dotted lines in Fig. 2 against the opposition of its spring 21.

The streams of water thus supplied from the perforations 36 of the pipe 16 will thoroughly cleanse the inclined plate 18 causing the excrement to be flushed out through the toilet in the manner that wash-out toilets are flushed.

After the flushing operation has been completed the attendant will relieve pressure from the head 42 of the rod 41 to allow the spring 21 to restore the plate 18 to its normal position. As soon as this has occurred the attendant will pull rod 41 up to the limit of its upward movement thus completely closing valve 40 and at the same time turning button 45 into position to support the free end of plate 18.

Claims:

1. An animal toilet comprising a bowl, a transversely extending closure plate mounted

within said bowl, an edge portion of said plate being hingedly connected with said bowl, a spring normally sustaining the free edge of said plate, said plate being adapted to be depressed against the opposition of said spring to an inclined position to facilitate flushing thereof, flushing means adapted to direct water downwardly upon said plate, and manually operable means to simultaneously operate said flushing means and depress said plate against the opposition of its spring.

2. An animal toilet comprising a bowl, a transversely extending closure plate mounted within said bowl, an edge portion of said plate being hingedly connected with said bowl, a spring normally sustaining the free edge of said plate, said plate being adapted to be depressed against the opposition of said spring to an inclined position to facilitate flushing thereof, flushing means provided with a control valve adapted to direct water downwardly upon said plate, a catch means normally underlying the free edge of said plate and means operatively connecting said valve with said catch means and with said plate, whereby upon operating the valve to flush the toilet said catch means is released and said plate is depressed.

3. An animal toilet comprising a bowl, a closure plate mounted upon said bowl, a spring normally sustaining said plate in a substantially horizontal position, hinge means for said plate, said hinge means being provided with an operating arm to depress said plate to an inclined position against the opposition of its spring, flushing means adapted to direct water downwardly upon said plate, said flushing means comprising a control valve, a button normally underlying the free edge of said plate, and means to open said valve, said valve being operatively connected with said plate by means of a lost motion connection and being also operatively connected with said button whereby when the valve is opened said button is first turned to the releasing position and said plate is thereafter depressed to the inclined position.

In testimony whereof I hereunto affix my signature.

ANNA C. SUPPLEE.