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GARBAGE CAN STORAGE CABINET

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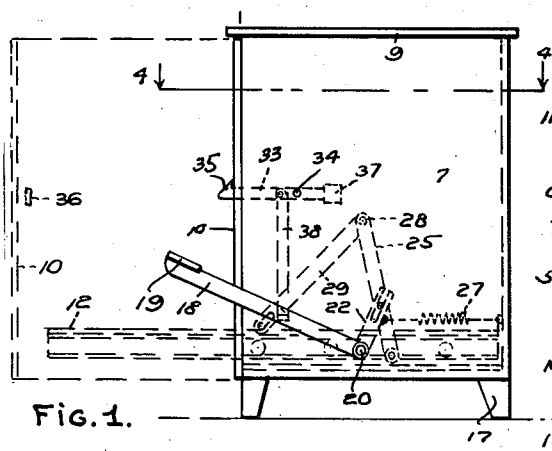


Fig. 1.

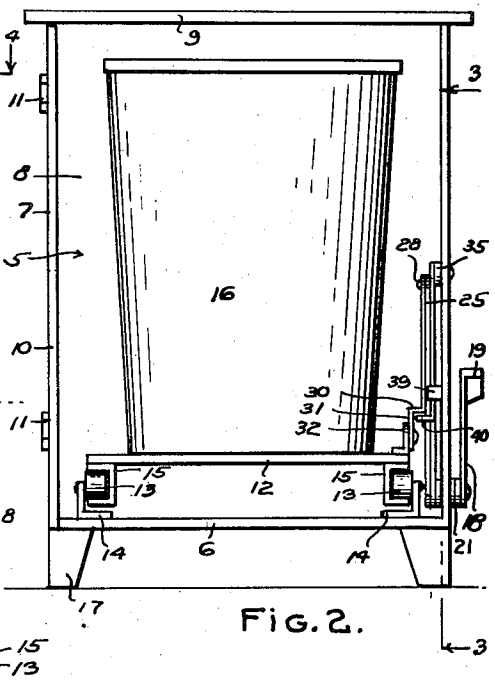


Fig. 2.

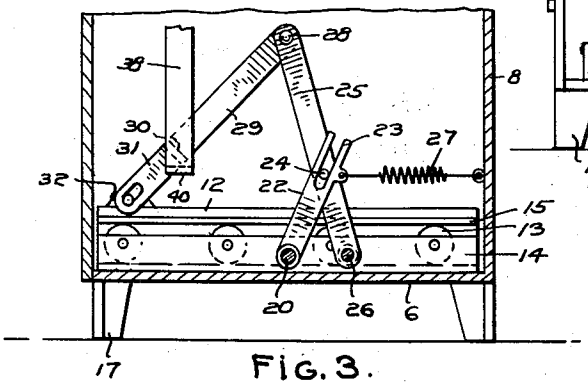


Fig. 3.

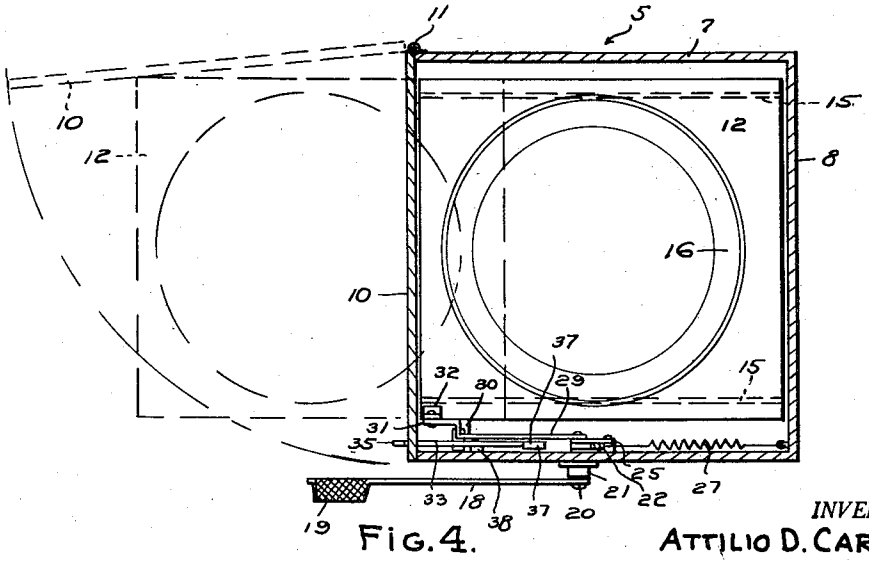


Fig. 4.

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# GARBAGE CAN STORAGE CABINET

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1 Claim. (Cl. 312—274)

This invention relates to a storage cabinet and has for its object to provide a cabinet for the storage of a garbage or refuse can. An object of the invention is the provision of a novel form of storage cabinet wherein may be supported a conventional garbage can and whereby the can will be fully enclosed and adequately protected against insects, animals or the like.

The invention further has for its object, a novel form of storage cabinet that is provided with a closure door and wherein is disposed a shiftable platform upon which a garbage can or the like is supported, and with means operable from the outside of the cabinet and by the foot of the operator whereby the platform may be shifted outwardly from within the cabinet to expose the major open end of the can, with the operating means being automatically retractable and that causes the platform to be moved into the cabinet to permit the actuation of the closure door.

The invention further contemplates a novel actuating mechanism for the control of the horizontally shiftable platform that is antifrictionally supported within the cabinet to be projected beyond the open end thereof and with the platform being self-supporting as to avoid tilting or disarrangement thereof when projected outwardly and with a garbage can supported thereon.

Novel features of construction and operation will be more clearly apparent during the course of the following description, reference being had to the accompanying drawings, wherein has been illustrated a preferred form of the device and wherein like characters of reference are employed to denote like parts throughout the several figures.

In the drawings:

Figure 1 is a side elevation of a device constructed in accordance with the invention,

Figure 2 is an end elevation looking into the cabinet and with a closure door in a fully open position,

Figure 3 is a fragmentary vertical longitudinal section taken substantially on line 3—3 of Figure 2 and,

Figure 4 is a horizontal section taken substantially on line 4—4 of Figure 1.

Referring specifically to the drawings, the numeral 5 designates a cabinet as a whole formed of any suitable material and preferably rectangular in shape. The cabinet includes a bottom 6, side walls 7, an end wall 8, a top 9 and a hingedly connected closure door 10. The door 10 is preferably connected to and overlies the open end of the cabinet 5 and is supported by any conventional form of spring hinges 11.

Mounted within the cabinet 5 and supported upon the bottom 6, is a shiftable platform 12. The platform extends for the major length of the cabinet and is parallel to the bottom 6, to be shiftable outwardly in a horizontal plane. The platform 12 is anti-frictionally supported in a manner to facilitate its shifting movement and such anti-friction means embody a plurality of rollers 13 that are rotatably supported by angle irons 14, fixed to the bottom 6. As clearly shown, the rollers 13 are arranged



in spaced apart groups to support the opposite marginal portions of the platform 12. The rollers 13 engage within metallic channel members 15, fixedly connected to the underside of the platform 12 at its opposite sides. It will thus be apparent that the spaced apart rollers will maintain the platform substantially horizontal throughout its shifting movement. The platform is adapted to support a conventional garbage or refuse can 16 and any desirable centering means may be carried upon the surface of the platform whereby to accurately position the can thereon. Any suitable stop means may be employed to limit the outward shifting movement of the platform. The cabinet at its corners is preferably provided with legs 17 whereby the cabinet is supported in spaced relation to the ground and to thereby permit of a free circulation of air therebeneath. The cabinet may be provided with any desirable ventilating openings that will obviously be covered by insect screening for preventing the entry of insects to the cabinets.

Means are provided to shift the platform outwardly together with its supported receptacle 16 and whereby an individual may shift the receptacle outwardly by the use of his foot, since frequently the individual is handling a separate receptacle that is adapted to be dumped into the receptacle 16 and for this reason, the mechanism is foot operated, whereby to avoid the use of the operator's hands in opening, projecting the can and then upon release having the can and its supporting platform automatically retracted into the cabinet. The operating means embodies a treadle bar 18 having a foot pedal 19 at its free end. The bar 18 at its opposite end is fixed upon a projecting end of a rock shaft 20 that extends through a suitable bearing member 21 carried by the cabinet. The rock shaft 20 projects into the cabinet and its opposite end is provided with a crank arm 22 that is slotted at its free end as at 23 to engage a pin 24 carried by an angular actuating bar 25. The bar 25 at its lower end is pivotally connected upon a pin 26 carried by the inner wall of the cabinet and disposed rearwardly of the rock shaft 20. A retractile spring 27 is connected with the crank arm 22 and with the rear wall of the cabinet whereby to normally urge the crank 22 in a rearward direction and simultaneously urge the bar 18 in an upper direction toward an inactive position. The bar 25 at its upper end is pivotally connected at 28 to a forwardly angled actuating link 29. The link 29 intermediate its length is offset at 30, for a purpose to be described. The offset portion 31 of the bar 29 is pivotally connected to a bracket 32 carried by the forward end of the platform 12. It will thus be apparent, that when the treadle bar 18 is pressed downwardly, the crank arm 22 will be swung forwardly and through the medium of the pin 24 causes the bars 25 and link 29 to shift in a forward direction forcing the platform outwardly along its roller bed 13. The offset 31 at its point of connection with the bracket 32, is provided with a lost motion slot 32 whereby the bar 29 will partake of a limiting shifting movement prior to the actuation of the platform in the horizontal path.

Since it is desirable that the closure door 10 be securely latched against any tendency to fall to the open position or to be opened by animals or children, there has been provided a latch bar 33, pivotally connected to the side wall of the cabinet as at 34 and with the latch bar projecting beyond the forward open end of the cabinet where it is provided with a beveled tooth 35. The tooth 35 is adapted to engage through a slot 36 formed in the free side of the door 10. The latch bar 33 may be biased toward latching position either by spring means or a weight 37. Since the movement of the platform is through the medium of the treadle bar 18, it is also essential that means be provided whereby to readily release the latch bar 33 to permit the door 10 to swing

outwardly when the platform is projected. To actuate the bar 33, there has been provided a vertically disposed release bar 38 pivotally connected at one end to the bar 33 and with the bar being shiftable in any suitable guide bracket 39 carried by the wall of the cabinet. The bar 38 at its lower end is provided with an inwardly directed foot portion 40 that normally underlies the offset bend 30 of the bar 29. Thus, when the treadle bar 18 is actuated the crank arm 22 is rocked toward the front of the cabinet, imparting a swinging movement to the bar 25 and a forward motion to the link 29. However, since the connection of the bar 29 with the bracket 32 has sufficient lost motion, the initial projection of the link 29 causes the foot portion 40 of the bar 38 to be pressed downwardly, rocking the latching bar 33 downwardly and releasing it from latching engagement with the door 10. Thus a continued downward movement of the treadle bar forces the platform 12 and its supported can 16 outwardly of the cabinet where its major area will be exposed, thus permitting the operator to deposit trash or garbage within the can without the necessity of handling any part of the cabinet. Release of the foot from the treadle bar 18, permits the platform to be retracted under the influence of the spring 27 and, since the door is provided with spring hinges, the door will follow the platform as it is retracted into the cabinet. The operation is therefore believed to be clearly apparent.

It will therefore be seen from the foregoing that a very novel form of device has been provided for the sanitary storage of a garbage or refuse can. Under the most favorable conditions, garbage cans are unsightly and a hazard to health in general, due primarily to the breeding of flies and other insects and the frequent upsetting of the contents by animals. The device of the present invention permits the use of a garbage receptacle without the necessity of a closure cover for the can, since all of the parts are well protected against the weather and against insects or animals. The device is simple in construction, readily lends itself to manufacture from various materials, is strong, durable, easy to operate and is most effective as a protective medium for the storage of garbage cans.

It is to be understood that the invention is not limited to the precise details shown but that changes are contemplated as readily fall within the spirit of the invention as shall be determined by the subjoined claim.



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

A storage cabinet for the support of a garbage can that comprises a housing having top and bottom walls and side walls and with the cabinet being closed at one end and having its opposite end covered and uncovered by a hinged spring loaded door, a platform disposed within the cabinet and extending for the major length thereof, the platform being parallel to and in spaced relation to the bottom of the cabinet, anti-friction rollers carried by the bottom wall adjacent and parallel to each side wall, means carried by the platform that engages the rollers whereby the platform is horizontally shiftable on the rollers, a rock shaft that is journaled in one side wall of the cabinet, a treadle bar connected to the outer end of the rock shaft, a crank arm connected to the inner end of the rock shaft, an actuating bar that is pivotally connected to the side wall of the cabinet upon the inner side thereof, the said crank arm having pivotal and lost motion connection with the actuating bar, a link bar pivotally connected with the upper end of the actuating bar and with the opposite end of the link being pivotally connected to the platform whereby movement of the actuating bar and the link functions to shift the platform into and out of the cabinet, latch means carried by one side wall and that has latching engagement with the closure door, and means operable under the influence of the shifting movement of the link whereby the latch is initially released to permit the platform to be shifted outwardly and spring means for retracting the crank arm, the actuating bar and the link inwardly to retract the platform and a supported garbage can to a wholly housed position within the cabinet.

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