Aug. 13, 1929. M. J. TIERNEY 1,724,236

REFUSE DISPOSAL APPARATUS

Filed Dec. 14, 1927

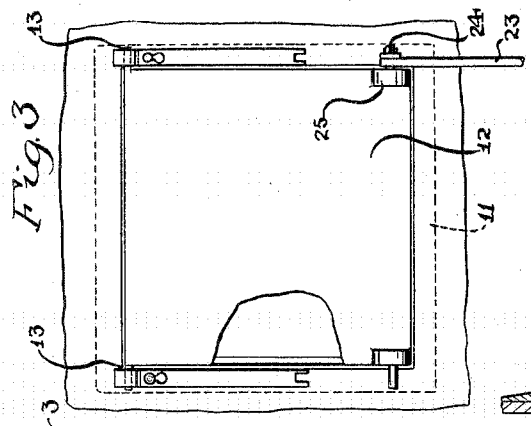


Fig. 3

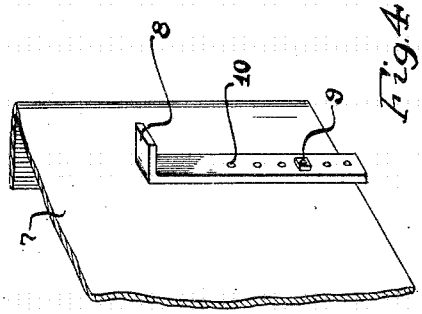


Fig. 4

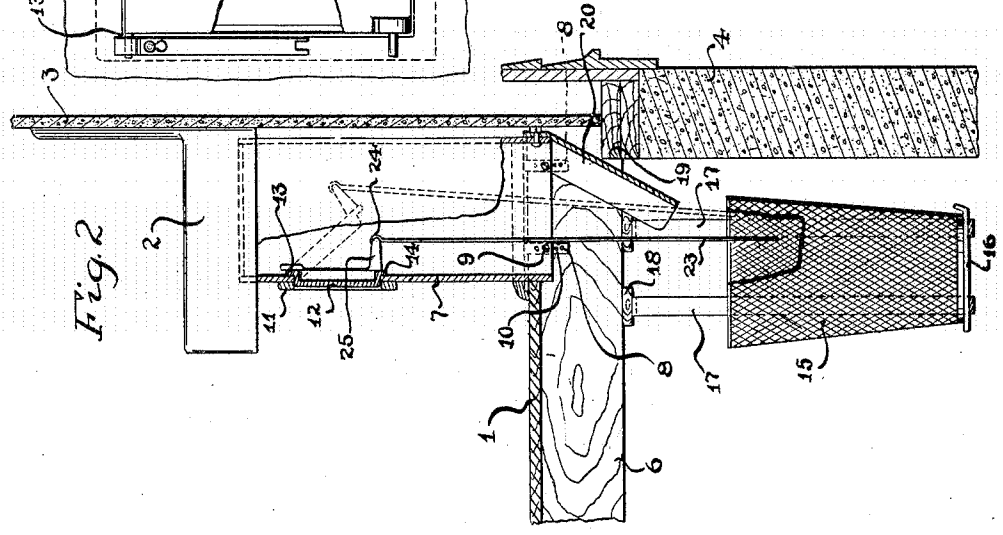


Fig. 2

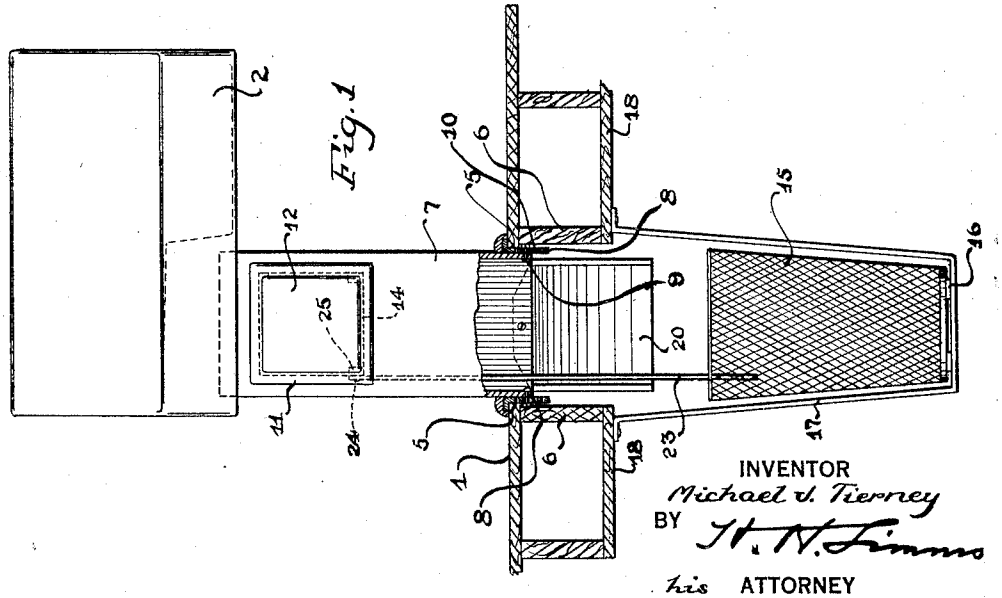


Fig. 1

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REFUSE-DISPOSAL APPARATUS.

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The present invention relates to a refuse disposal apparatus and more particularly to the type designed to carry refuse from a room in a dwelling to a receptacle located outside of the room, as for instance, from the kitchen to the cellar. An object of this invention is to provide a construction which may be fabricated at a factory, to be installed in any modern building so that the necessity of providing a different form of apparatus for each building is eliminated. Another object of the invention is to provide means for notifying the user of the apparatus that the receptacle is filled.

To these and other ends, the invention consists of certain parts and combinations of parts, all of which will be hereinafter described: the novel features being pointed out in the appended claims.

In the drawings:

Fig. 1 is a front view partially in section showing the apparatus installed;

Fig. 2 is a vertical section through the installed apparatus;

Fig. 3 is a rear view of the door of the apparatus; and

Fig. 4 is a fragmentary perspective view of the lower end of the receiving member.

Referring to the illustrated embodiment of the invention 1 indicates the flooring of a dwelling house and 2 a sink mounted on the outer wall 3 of the house which in a frame construction is set inwardly slightly from the cellar wall 4. The flooring is cut to provide an opening 5 substantially co-extensive in width to the distance between the two joints 6 of such flooring, the opening being situated preferably beneath the sink 2. Positioned beneath the sink 2 is a chambered receiver 7 which, in this instance, has a lower open end its upper end being closed, and its lower end projecting through the opening 5 in the flooring. To support the receiving member 7 in the floor opening, rests 8 may be provided on the outer faces opposite side walls of the receiving member 7, these rests being, in this instance, through bolts 9 and openings 10 in the rests adjustable on the receiving member so that when the upper end of the receiving member may be properly positioned beneath the sink and the rests 7 will rest upon the flooring 1 about the opening 5 to support the receiving member with its lower end in the opening. The receiving member has in its front side wall a framed opening 11 closed by a door 12 hinged at its upper edge on the rear side of the opening in upwardly opening bearings 13 to permit its ready removal for cleaning and having its outward movement limited by a surrounding flange 14. By pushing the door inwardly, the refuse may be dropped into the receiving member 7 and discharged into a receptacle 15 arranged in the cellar beneath the receiving member 7.

The receptacle 15 preferably is a reticulated structure and is supported on a platform or support 16 in an elevated position in the cellar. The platform 16, in this instance, is suspended from the joists 6 preferably by hanger frames 17 having their upper ends fastened to strips 18 nailed to the joists.

As before pointed out, the building wall 3 meets the celler wall 4 with an offset portion indicated at 19, and as it is desirable that the receiver shall lie as close to the outside wall 3 as possible, provision has been made for preventing the refuse dropped into the receiver 7 collecting on the offset portion 9. To this end a trough-shaped chute 20 is secured at its upper end to the rear wall of the receiver 7 and declines from the lower end of the receiver beneath said end of the receiver. This trough-shaped chute 20 directs the material into the receptacle 15 and has its lower end above the upper edge of the receptacle so that the receptacle may be removed laterally from its supporting plate 16 to discharge its contents.

With the end in view of notifying the user of the apparatus that the receptacle 15 is filled, there is provided a means controlled by the contents of the receptacle and acting on the closure or door 12 in such a manner as to hold said closure against closing when a certain amount of refuse has accumulated in the receptacle 15. This means, in this instance, consists of a rod 23 pivoted at 24 to an arm 25 extended rearwardly from the lower portion of the closure 12. This rod depends through the receiver past the chute 20, its lower end extending into the receptacle 15 so that, when the contents of the receptacle are above a certain height, the lower end of the rod cannot drop, and, as a consequence, the door or closure 12 is held in an open position as indicated in dotted lines in

Fig. 2. Under normal conditions, the rod acts as a weight to hold the door or closure 12 in a closed position.

From the foregoing it will be seen that the receiver may be positioned beneath a sink notwithstanding the distance between the sink and the flooring. The receiver carries the chute which directs the refuse to the receptacle and prevents it lodging upon an offset in the wall of the building. The receptacle into which the receiver discharges has its supporting means separate from the receiver so that withstanding the width of the joist or other variations in the size of the building it is properly positioned beneath the receiver. A means controlled by the contents of the receptacle prevents the closing of the door when the receptacle is filled thus notifying the user that the receptacle is filled. It also acts as a weight to maintain the door in a closed position under normal conditions.

What I claim as my invention and desire to secure by Letters Patent is:

1. A refuse disposal apparatus comprising a receiver having an open lower end, floor engaging rests projecting from the receiver near the lower end thereof, and a trough shaped chute secured to the rear wall of the receiver and declining from said secured portion beneath the lower end of the receiver.

2. The combination with the flooring of a building having an opening, of a receiver projected through said opening and having floor engaging rests resting on the top of the flooring, and a receptacle suspending means secured to the underside of the flooring to receive material from the receiver, said receptacle supporting means having a support for a receptacle from which the latter is removable laterally.

3. A refuse disposal apparatus comprising a receiver having a movable closure, a receptacle supported to receive material from said receiver, and means operating in the receptacle and having connection with the closure for holding the latter open when the contents of the receptacle reach a certain level.

4. A refuse disposal apparatus comprising a receiver having its lower end open and provided with an inwardly swinging closure hinged at its upper edge, a receptacle supported to receive material from the receiver, and a rod suspended from the lower portion of the closure and extending into the receptacle through the receiver.

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