May 19, 1925. 1,538,240

J. C. CLAUDEPIERRE

WASTE DISPOSAL CHUTE

Filed June 24, 1924 2 Sheets-Sheet 1

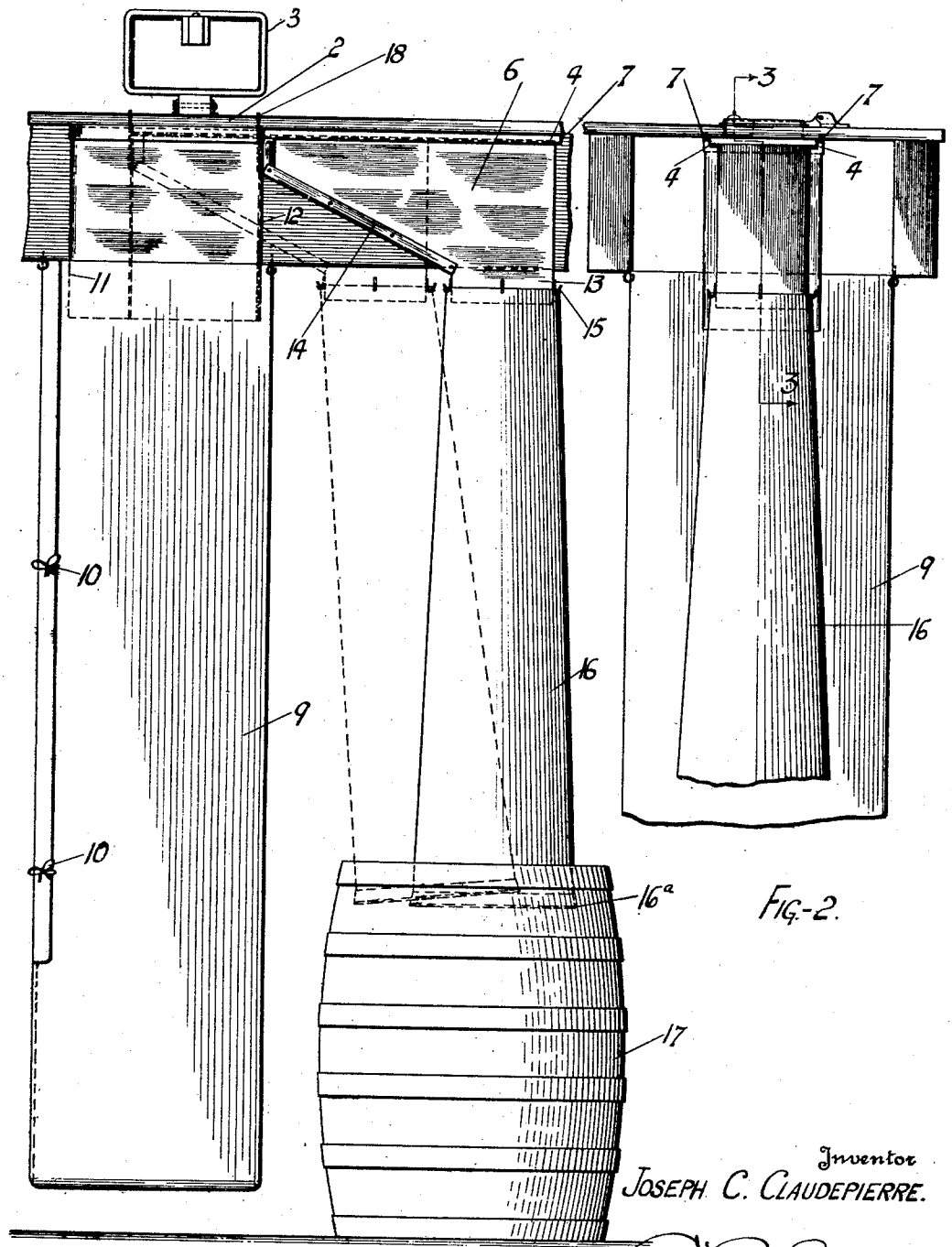


FIG-1.

FIG-2.

Inventor
JOSEPH C. CLAUDEPIERRE.

By

Attorney

May 19, 1925. 1,538,240

J. C. CLAUDEPIERRE

WASTE DISPOSAL CHUTE

Filed June 24, 1924 2 Sheets-Sheet 2

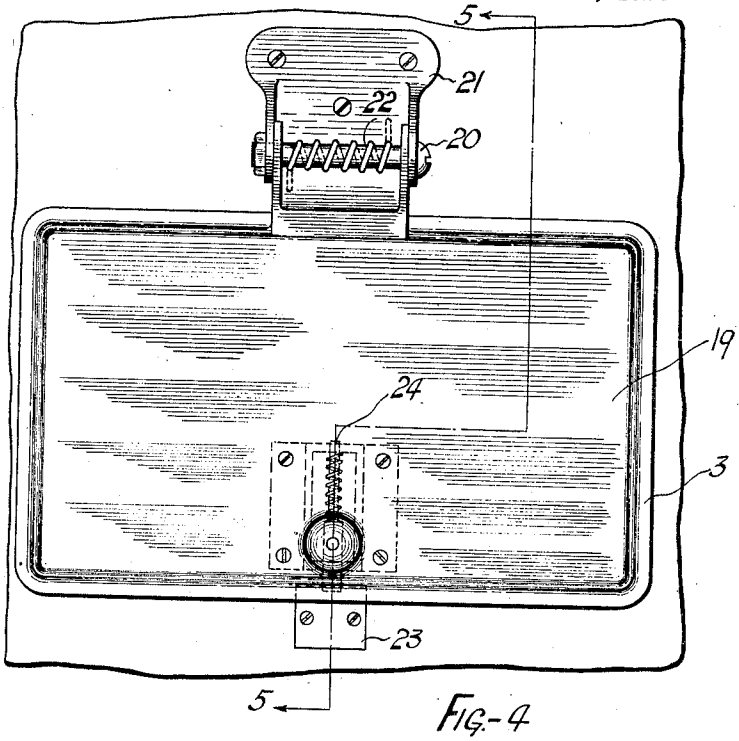


FIG.-4

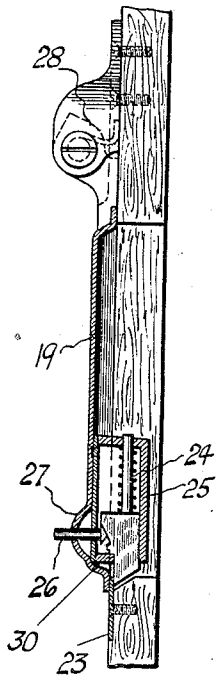


FIG.-5.

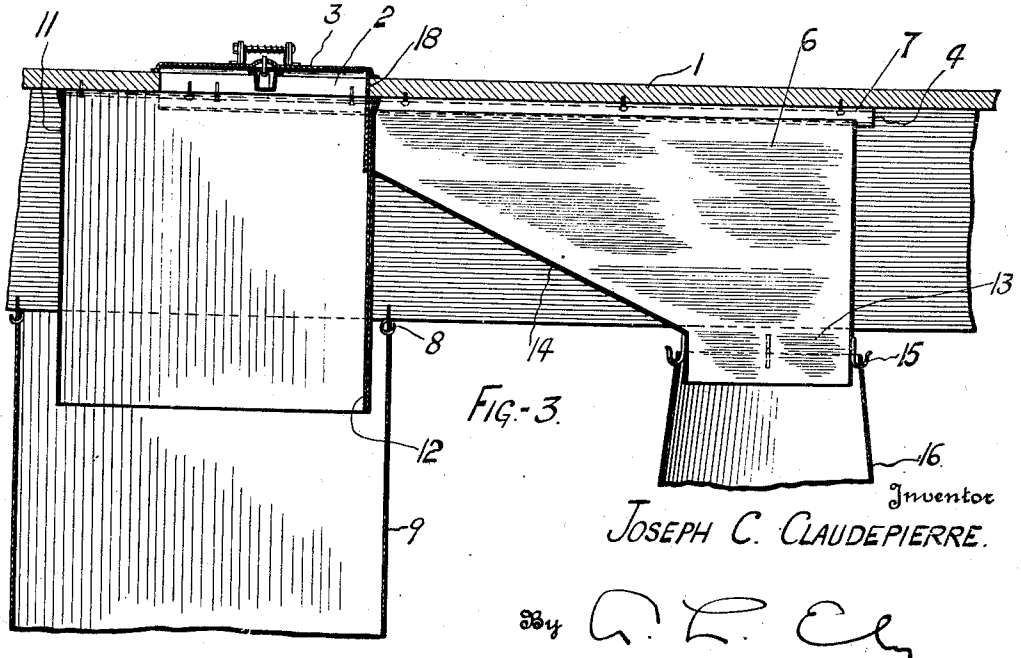


FIG.-3.

Inventor

JOSEPH C. CLAUDEPIERRE.

By G. E. E.

Attorney.

Patented May 19, 1925. 1,538,240

UNITED STATES PATENT OFFICE.

JOSEPH C. CLAUDEPIERRE, OF AKRON, OHIO.

WASTE-DISPOSAL CHUTE.

Application filed June 24, 1924. Serial No. 722,068.

To all whom it may concern:

Be it known that I, JOSEPH C. CLAUDEPIERRE, a citizen of the United States, and a resident of Akron, county of Summit, State of Ohio, have invented certain new and useful Improvements in Waste-Disposal Chutes, of which the following is a specification.

This invention relates to means for facilitating the disposal of waste occasioned in housekeeping. It has for its object the construction of a device by means of which the housewife is enabled to quickly and easily dispose of her sweepings, tin cans and other trash which accumulate in and about the house. The object of the invention is to devise a form of disposal chute by means of which the housewife is enabled to separate combustible waste material such as papers, sweepings and the like, from incombustible material such as tin cans, or bottles, the chute being easily operated to direct the various types of waste into different receptacles.

The chute is intended to be located in the floor of the kitchen or other convenient point and is covered by a spring operated door or trap which can be released and closed by the foot. By the use of this invention the housewife can with pressure of the foot, open the door to the chute and then sweep the trash into a passageway which leads to one receptacle. The device is so arranged that by the foot the chute can be changed to direct the non-combustible waste into another receptacle.

The invention has for its objects, in addition to those previously described, the construction of a spring actuated door especially adapted for cooperation with the chute and also a form of bag or receptacle for the lighter combustible material, which can be emptied without disconnecting it from the chute.

This application is a continuation in part, of a prior application of the present inventor, Serial No. 439,887, filed January 25, 1921.

Other objects and advantages will be apparent from the description and drawings herewith presented, it being understood that changes and modifications may be made within the scope of the invention and which are intended to be covered by the claims attached hereto.

In the drawings:

Figure 1, is a side elevation of the device.

Figure 2, is an end view.

Figure 3, is an enlarged section on the line 3—3 of Figure 2.

Figure 4, is a plan view of the door.

Figure 5, is a section on the line 5—5 of Figure 4.

The device is preferably intended to be located in the floor of the kitchen, although it may be placed elsewhere if desired. In the drawings, 1 represents the floor in which there is cut the opening 2, designed to be closed by a cover or lid 3. Secured to the underside of the floor are parallel, spaced, angular guiding and supporting rails or tracks 4, which are located on opposite sides of the opening 2 and extend to one side thereof for a sufficient distance to permit the movement of a sliding chute indicated generally by the numeral 6.

Suspended in any suitable manner below the floor opening 2 in the cellar of the house is a receptacle or sack 9 which is intended for the light combustible trash. This is preferably in the form of a substantially square bag of burlap or other suitable material, the upper end of which hangs upon hooks 8 on the floor joists and the lower end of which is enclosed for a short distance up the bag. The bag is provided with an opening along one edge, along which opening are arranged at suitable intervals, tapes 10, by which the opening in the bag can be closed. In order to prevent drafts passing from the cellar through the floor opening when the door is raised, the space between the opening and the top of the sack is closed in by a guard 11 which surrounds the opening, except at the place occupied by the shiftable chute 6, and telescopes with the sack 9. The remaining side of the opening is closed by a panel or plate 12 which is attached to the front of the chute 6.

When the chute is in the position shown

in full lines in Figure 1 and the door opened, the housewife can throw papers or sweep trash through the opening, whereupon they will drop into the sack 9. When the sack is full it can be opened and the accumulations removed, without taking it from the hooks.

The chute 6 is formed of sheet metal open at the top and is provided with a flange 7 which is guided for movement in the rails 4. It is formed with a smaller opening 13 located at one side of the chute, the bottom 14 of the chute being inclined downwardly toward the opening 13. Around the opening 13 are a series of hooks 15 from which is suspended a flexible or swinging extension 16 which is adapted to be received in the upper end of a barrel or other receptacle 17, the extension being held open by a wire hoop 16[a] in the lower end thereof which serves to retain the extension within the barrel. Attached to the end of the chute 6 and projecting within the opening 2 and slightly above the floor is a plate 18 which is located in the position shown to enable the housewife with her foot to move the chute 6 over so that it will register with the opening 2. Any tin cans or other heavy and non-combustible matter will be delivered by the chute 6 into the receptacle 17 when the chute is moved over to the dotted line position of Figure 1, the plate 18 serving to indicate the position of the chute.

The door or lid 3 is shown in detail in Figures 4 and 5. It is preferably a metal plate provided with a raised central portion 19 to accommodate the plate 18. The lid is hinged on a pin 20 to the bracket 21 secured to the floor, a coil spring 22 surrounding the pin and serving to elevate the lid when it is released. A keeper 23 is located in the floor opposite the bracket 21 and is engaged by a spring operated sliding catch 24 which is mounted in a housing 25 on the underside of the lid. A stop 30 serves to hold the catch in its outermost position. A plunger 26 passes through a boss 27 in the top of the lid, the lower end of the plunger having a beveled surface to engage with a correspondingly beveled surface in the catch 24. Pressure of the foot will retract the catch releasing the lid, which will fly upwardly into open position and remain in such position against a stop 28 until the lid is again depressed, the stop being arranged so that the lid will open to an angle less than 90°.

It is believed that the purposes and usefulness of the invention have been fully described and it will be understood that the showing is for the purpose of making the invention clear and is not to be taken as limiting it beyond the scope of the invention as defined in the following claims. While the device has been described for use in kitchens or for household purposes it may be used for other purposes and in other locations.

What is claimed is:

1. In a device for receiving and sorting waste material, a chute discharging by gravity into one receptacle, and a secondary chute movable into position within the first said chute and adapted to deflect waste material into a second receptacle and means exterior to the first named chute to operate the secondary chute.

2. In a device for use in sorting and storing waste material, a floor having an opening therein, a receptacle beneath the floor, guideways upon the undersurface of the floor, a chute slidable in the guideways and having means for directing certain of the waste material into a second receptacle and an operating plate attached to the chute and projecting through the floor opening.

3. In a device for use in sorting and storing waste material, a floor having an opening therein, a cover for said opening, a receptacle beneath the floor a chute slidably mounted beneath the floor and movable to a position beneath the opening, said chute having means for directing waste material into a second receptacle and an operating plate attached to the chute and projecting through the floor opening.

4. In a device for use in sorting and storing waste material, a floor having an opening therein, a cover for said opening, a receptacle beneath the floor, a chute slidably mounted beneath the floor and movable to a position beneath the opening, said chute having means for directing waste material into a second receptacle and means to move the chute.

5. In a device for use in sorting and storing waste material, a floor having an opening therein, a cover for said opening, a receptacle suspended beneath the opening, parallel guiding rails beneath the floor on opposite sides of the opening, a sliding chute on said rails, a flexible extension upon the end of the chute adapted to guide waste into a second receptacle and an operating plate secured to the chute and projecting within the floor opening.

6. In a device for use in sorting and storing waste material, a floor having an opening therein, a receptacle beneath the opening, a draft guard partially surrounding the opening and telescoping with the receptacle, and means movable within the draft guard to deflect certain of said waste material into a second receptacle.

7. In a device for use in sorting and storing waste material, a floor having an opening therein, a cover for said opening, a receptacle beneath the opening a draft guard partially surrounding the opening and telescoping with the receptacle, a chute movable

within the draft guard and beneath the opening and means carried by the chute to complete the draft guard when the chute is located at one side of the opening.

8. The combination with a chute for disposal of waste material, said chute being mounted under a floor opening of a waste receptacle suspended beneath the floor opening, said waste receptacle comprising a sack closed at its lower end and partially upon its sides and means to close the sack.

9. The combination with a floor having an opening therein for disposal of waste material, of a waste receptacle suspended beneath the floor opening said waste receptacle comprising a sack closed at its lower end but open along a vertical line and having securing means to hold it in closed position.

10. A floor opening and cover therefor, said cover being hinged at one side of the opening, a spring adapted to raise the cover, a spring catch carried by the door and a keeper in the floor adapted to be engaged by the catch, and a pin projecting through the cover and having means which upon depression of the pin will withdraw the catch.

11. A floor opening and cover therefor, said cover being hinged at one side of the opening, a spring adapted to raise the cover, a catch carried by the door and a keeper in the floor with which it is adapted to engage, a pin projecting through the cover and cooperating means between the catch and the pin adapted to withdraw the former upon depression of the latter.

12. A floor opening and a cover therefor, said cover being hinged at one side of said opening, yielding means adapted normally to raise the cover, means for latching the cover over the opening, means for releasing the latching means, and means adapted to limit the opening movement of said cover so that the latter will be disposed at an angle less than a right angle over said opening.

13. A floor opening and a cover therefor, said cover being hinged at one side of said opening, a spring adapted to raise the cover, a catch for holding the cover in a closed position and a keeper with which the catch is adapted to engage, and means engaging the catch and projecting above the floor, said means being adapted to be depressed for releasing the catch from engagement with the keeper.

JOSEPH C. CLAUDEPIERRE.