Nov. 13, 1962 N. M. LAGINESTRA 3,063,591

GARBAGE PAIL

Filed May 28, 1962 2 Sheets-Sheet 1

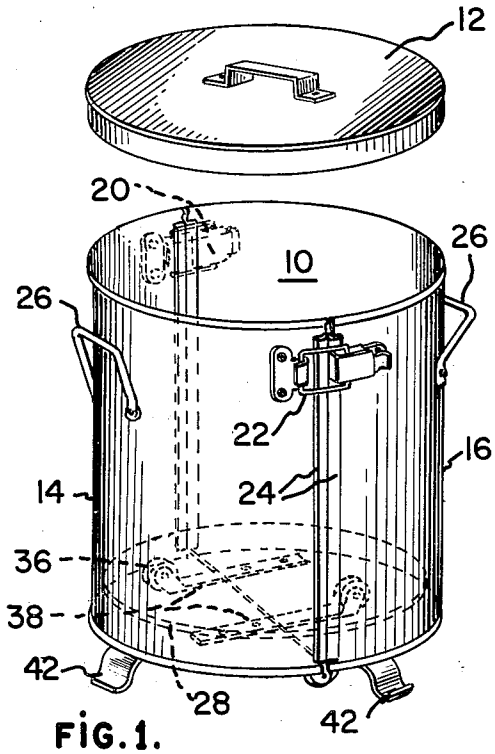

FIG. 1.

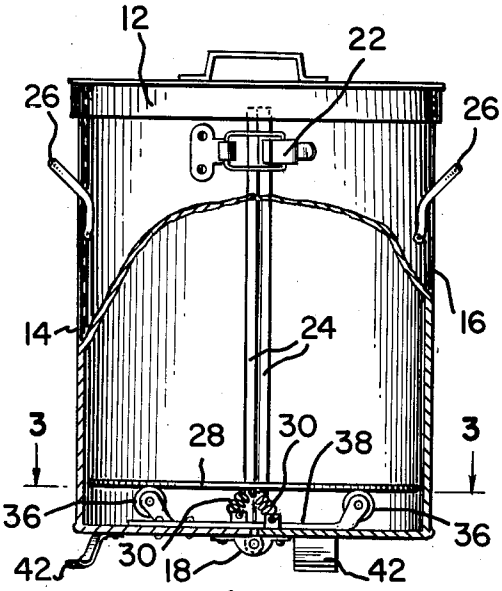

FIG. 2.

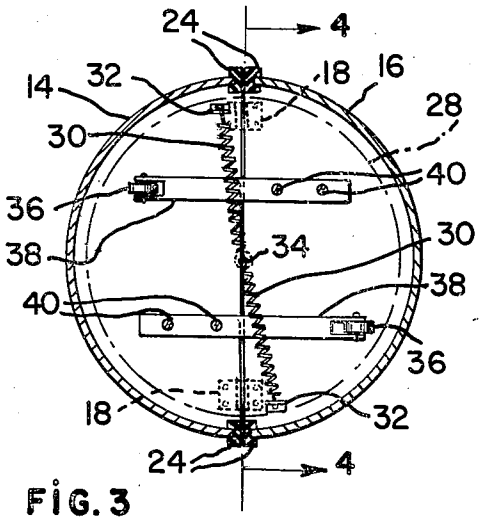

FIG. 3

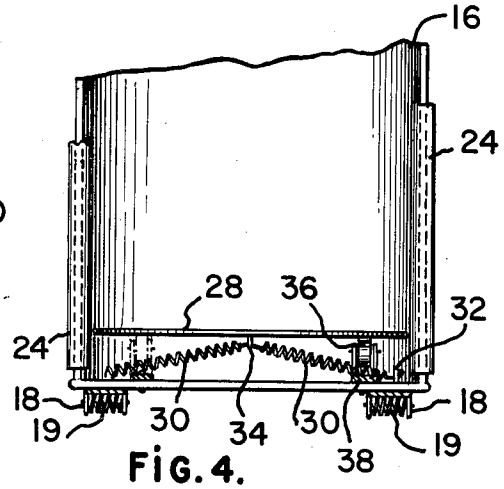

FIG. 4.

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GARBAGE PAIL

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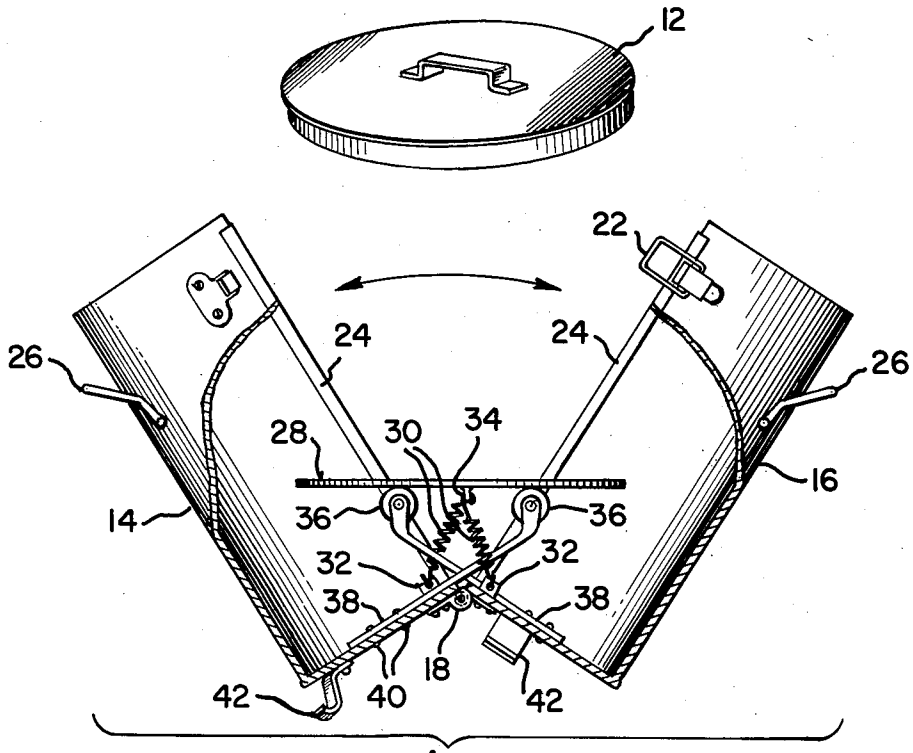

FIG. 6.

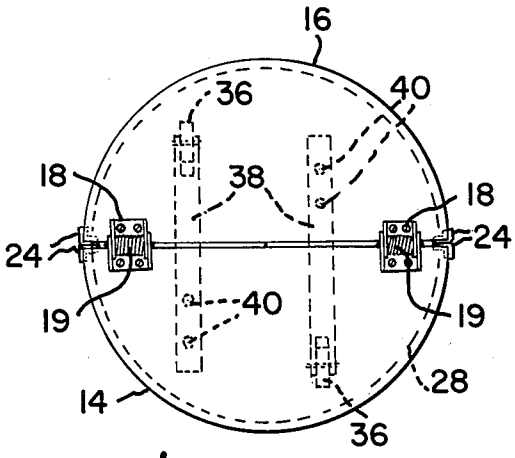

FIG. 5

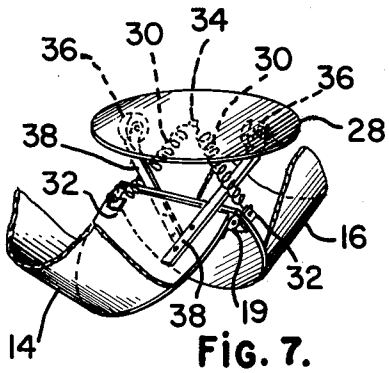

FIG. 7.

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GARBAGE PAIL

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3 Claims. (Cl. 220—1)

This invention is an improved garbage pail which can quickly and conveniently dislodge and/or eject the rubbish or refuse deposited therein.

A disadvantage in the conventional one-piece garbage pail used in the home is that the refuse deposited therein, usually in a paper bag, becomes so tightly wedged against the sides that the hands of the user are often required to reach down and lift the contents from the pail in order to empty it even when the pail is turned upside down.

An object of the present invention is to overcome this difficulty and enable the contents of the garbage pail to become automatically raised or dislodged toward the open end of the pail by a simple manipulation when it is desired to empty the pail.

Another object is to provide a novel garbage pail made of two equal-size complementary halves detachably fastened together near the top and hinged together at the bottom and provided in the interior thereof with a relatively flat surface so supported that it rises automatically when the two halves of the pail are spread apart.

A specific object is to provide a cylindrically-shaped garbage pail constructed from two semi-circular rigid halves which are hinged together at the bottom and detachably fastened together by clasps on both sides of the abutting edges near the open top of the pail, and having in the interior thereof a flat plate which rises automatically to elevate the contents of the pail when the semi-circular halves are spread apart.

A more detailed description of the invention follows, in conjunction with a drawing, wherein:

FIGURE 1 is a perspective view of the garbage pail of the invention in the closed condition;

FIGURE 2 is a side view of FIGURE 1 in elevation with the lower part of the pail cut-away to show the interior of the pail;

FIGURE 3 is a sectional view taken substantially upon a plane passing through line 3—3 of FIGURE 2 immediately below the flat plate in the interior of the pail;

FIGURE 4 is a longitudinal sectional view of the lower part of the pail taken along line 4—4 of FIGURE 3;

FIGURE 5 is a bottom view of the pail of FIGURES 1 and 2 with the legs omitted for the sake of clarity of illustration;

FIGURE 6 is a view similar to that of FIGURE 2, but with the two halves spread apart; and

FIGURE 7 is a detail or fragmentary view in perspective, illustrating the manner in which the flat plate in the interior and lower part of the pail is supported and responds automatically when the two halves are spread apart.

Throughout the figures of the drawing the same parts are designated by the same reference numerals.

The garbage pail of the invention is open at the top **10**, neglecting the conventional lid **12**, and comprises a pair of similar complementary semi-circular halves or sections **14** and **16** hinged together at the bottom by spaced hinges **18** which are provided with coiled springs **19** arranged to exert a force which is sufficient to cause the two halves **14** and **16** to abut each other in the absence of an opposing force spreading the two halves apart. On both sides of the pail, near the top thereof and along the edges of the two halves which are adapted

to abut one another, there are provided clasps **20** and **22** for closing the pail to form a cylindrical receptacle capable of collecting garbage or rubbish. The edges of the two semi-circular halves **14** and **16** are provided with rubber or equivalent compressible channel-like material **24** to assure a tight fit when the pail is closed by the clasps. Each semi-circular half is provided with a handle **26**.

A flat metallic surface or plate **28** is positioned in the interior of the garbage pail and near the bottom thereof for automatically elevating or dislodging the contents of the garbage pail when the two halves **14** and **16** are spread apart by hand for emptying the garbage pail. A pair of coiled resilient springs **30**, **30** are fastened at one end only to one of two spaced points **32** on oppositely disposed locations on the bottom flat interior walls of the two halves, as shown, and at their other ends to a hook or eye **34** on the bottom central portion of the flat plate **28**. The springs **30**, **30** exert pressure to hold the plate **28** against freely rotating hard rubber wheels **36** which, in turn, are mounted, each at one end, on a narrow metallic strip **38**. It should be observed that each strip **38** is securely fastened at only one end, as by rivets or screws **40**, to the bottom flat interior wall of a semi-circular half **14** or **16**, and that the rivets or screws for the two strips **38** and the wheels **36** thereof are oppositely disposed, as shown in FIGURES 3, 5, 6 and 7.

The garbage pail may be provided with any desired type of legs **42** for supporting the pail above a floor. Three such legs **42** are provided, spaced 120 degrees apart, at the bottom of the pail.

In using the garbage pail for collecting garbage or rubbish, the two clasps **22** will be closed in the manner shown in FIGURES 1 and 2. The garbage will rest upon the flat metallic plate **28**. In order to empty the pail, the clasps **20** and **22** are opened and the two handles **26**, **26** are pulled in opposite directions to spread apart the two semi-circular halves in the manner shown in FIGURE 6. When the two halves are spread apart the free ends of the strips **38** (the ends containing the wheels **36**) are forced upward and automatically raise the flat plate **28** appreciably above the lowermost position shown in FIGURES 1 to 3 and against the restraining force exerted by resilient springs **30**, **30** to thereby cause the plate **28** to assume the position shown in FIGURES 6 and 7. The wheels **36** rotate freely on the undersurface of plate **28** as this plate is elevated. The elevation of plate **28** thus dislodges or ejects the contents of the garbage plate without the necessity for the user to reach down and lift the garbage by hand from the pail.

What is claimed is:

1. A garbage pail comprising a pair of complementary hollow sections each having a side wall, a bottom wall, an open top, and a handle externally positioned near the top, the hollow portions of said sections facing each other to form a single hollow receptacle when the edges of the side walls of the sections abut each other, hinge means interconnecting adjacent edges of the bottom walls of said sections, said bottom walls of said sections being coplanar when the edges of the side walls abut each other and converging upwardly toward the center when the sections are spread apart, clasps attached to the outside of said sections near the edges of the side walls but at a distance above the bottom walls for attaching said sections together to form a single hollow receptacle, a flat plate in the interior of said pail near the bottom thereof and mounted on the bottom walls of said sections, and means attached to said bottom walls and responsive to the converging movement of said bot-

tom walls when said sections are spread apart fo relevating said plate to eject or dislodge the contents of said pail.

2. A garbage pail comprising a pair of similar complementary semi-circular hollow sections each having a side wall, a bottom wall, an open top, and a handle externally positioned near the top, the hollow portions of said sections facing each other to form a single hollow receptacle when the edges of the side walls of the sections abut each other, hinge means interconnecting adjacent edges of the bottom walls of said sections, said bottom walls of said sections being coplanar when the edges of the side walls abut each other and converging upwardly toward the center when the sections are spread apart, clasps attached to the outside of said sections near the edges of the side walls for attaching said sections together to form a single hollow receptacle, a flat plate in the interior of said pail near the bottom thereof and resiliently mounted on the bottom walls of said sections, and means attached to said bottom walls and responsive to the converging movement of said bottom walls when said sections are spread apart for elevating said plate to

eject or dislodge the contents of said pail, said last means including metallic strips fastened at one end only to the bottom interior walls of said sections, each of said strips which is fastened to the bottom wall of only one section having a free end extending into the hollow area of the other section, and a wheel mounted on the free end of each strip and engaging the undersurface of said flat plate.

3. A garbage pail in accordance with claim 2, wherein the means for resiliently mounting the flat plate on the bottom walls of said sections includes a pair of coiled springs fastened at one end to oppositely disposed points on the bottom walls and at the other end to said flat plate.

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